Appendix E

Spurious Emission at Antenna Terminal
According to FCC Part 2.1051 & Part 27 Subpart C&L

TABLE OF CONTENTS

1 For CDMA 1700

1.1 Test Mode = TM1

1.1.1.1 Channel = B


```
                              * RBW   1 kHz        Marker 1 [T1 ]
                              * VBW  10 kHz               -38.67 dBm
Ref   35 dBm         Att   45 dB    SWT 145 ms       13.067307692 kHz
```
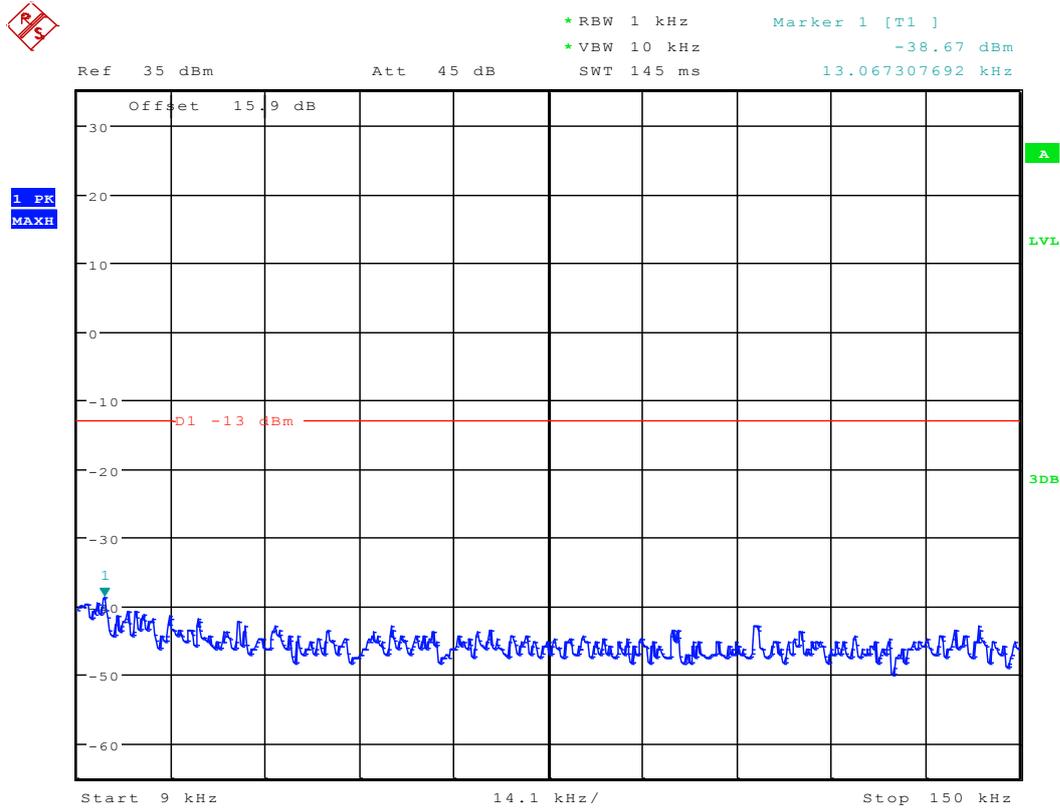
Date: 14.APR.2012 00:43:40

```
                                    * RBW 10 kHz      Marker 1 [T1 ]
                                    * VBW 30 kHz                -32.85 dBm
        Ref  35 dBm        Att  45 dB    SWT 300 ms    150.000000000 kHz
```



```
Start  150 kHz              2.985 MHz/              Stop  30 MHz
```
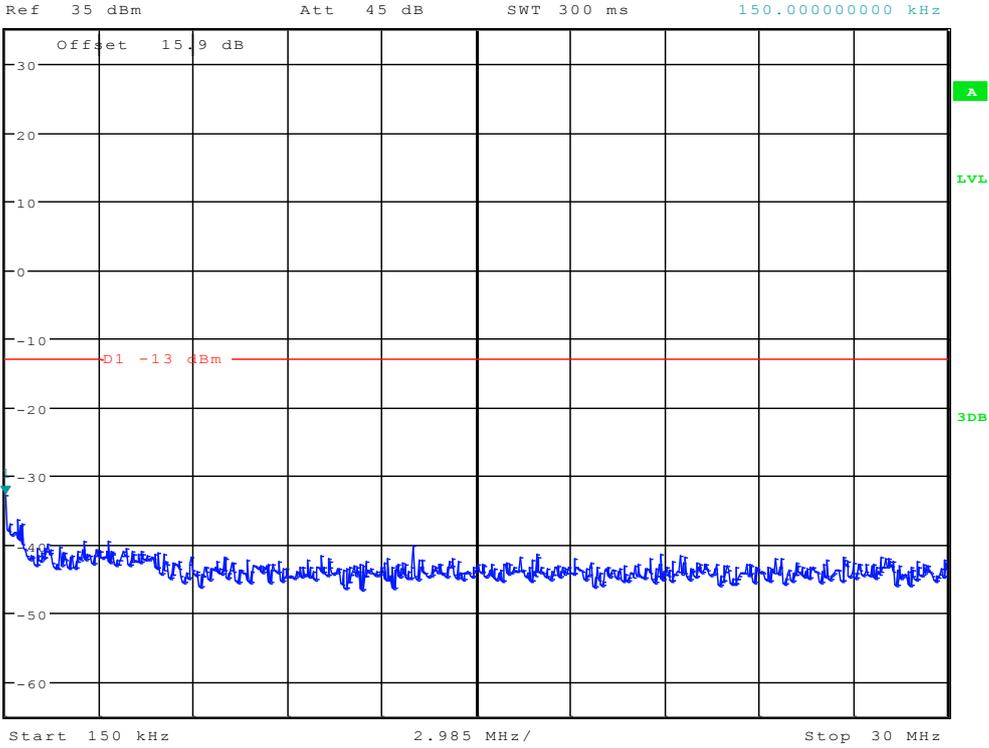
Date: 14.APR.2012 00:44:06

Date: 14.APR.2012 00:44:31

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1.1.1.2 Channel = M

```
R
S

                                    *RBW  1 kHz        Marker 1 [T1 ]
                                    *VBW  10 kHz               -38.38 dBm
    Ref  35 dBm          Att  45 dB   SWT  145 ms       10.355769231 kHz

        Offset  15.9 dB                                              A
     30

1 PK 20                                                             LVL
MAXH
     10

     0

    -10
        D1  -13 dBm
    -20                                                             3DB

    -30

    -40
     1
    -50

    -60

    Start  9 kHz            14.1 kHz/              Stop  150 kHz
```
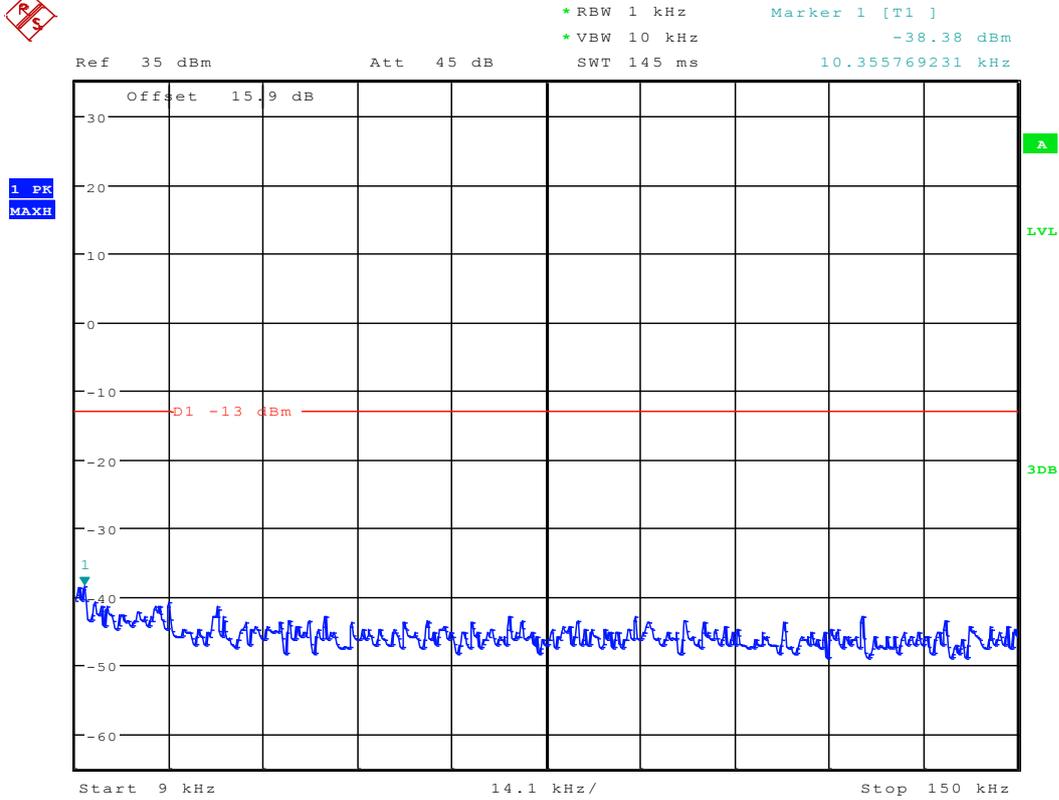
Date: 14.APR.2012 00:43:48

Date: 14.APR.2012 00:44:14

```
                                         * RBW  1 MHz        Marker 1 [T1 ]
                                         * VBW  3 MHz               23.87 dBm
     Ref  35 dBm            Att  45 dB    SWT  115 ms        1.726169872 GHz
```



```
Start  30 MHz              1.997 GHz/              Stop  20 GHz
```
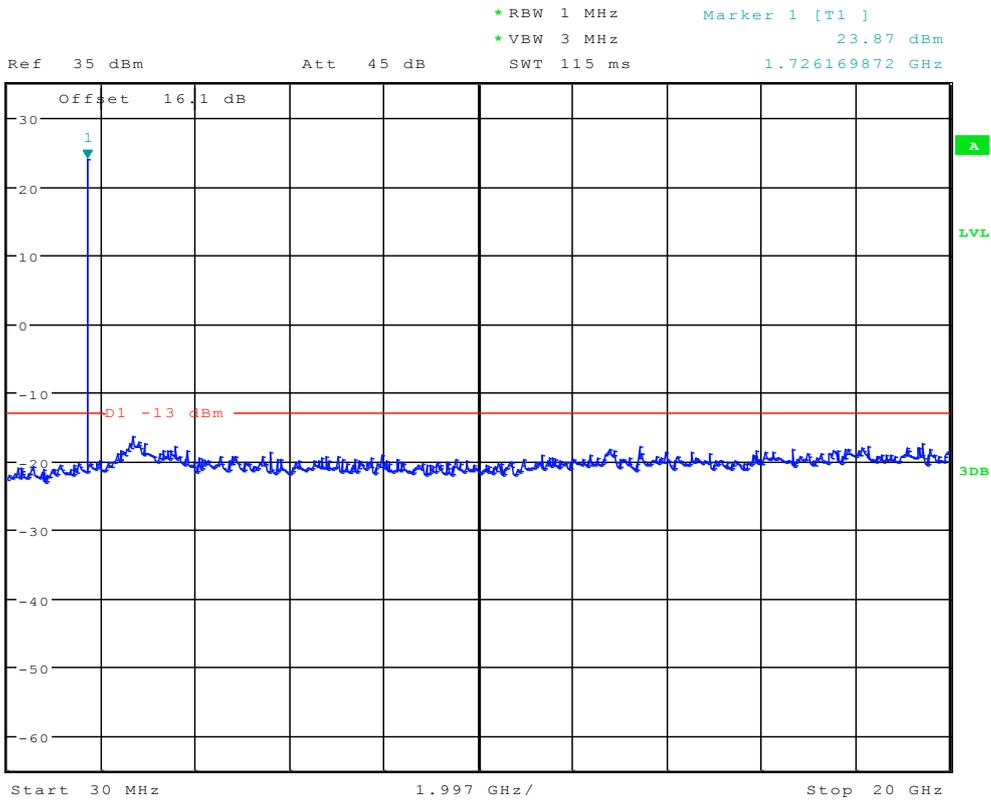
Date: 14.APR.2012 00:44:40

1.1.1.3 Channel =T
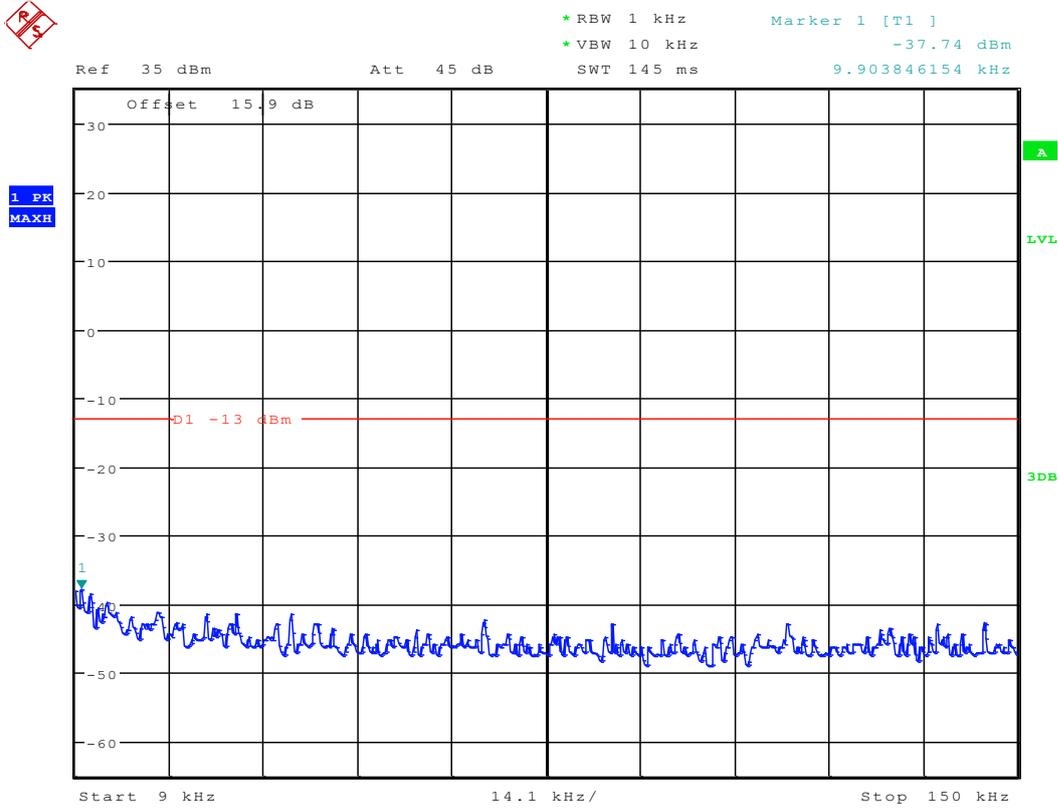
```
* RBW 1 kHz           Marker 1 [T1 ]
* VBW 10 kHz                    -37.74 dBm
Ref  35 dBm      Att  45 dB     SWT 145 ms     9.903846154 kHz

Offset  15.9 dB

 30
 20
 10
  0
-10      D1 -13 dBm
-20
-30
-50
-60

Start  9 kHz          14.1 kHz/          Stop  150 kHz
```

Date: 14.APR.2012 00:43:57
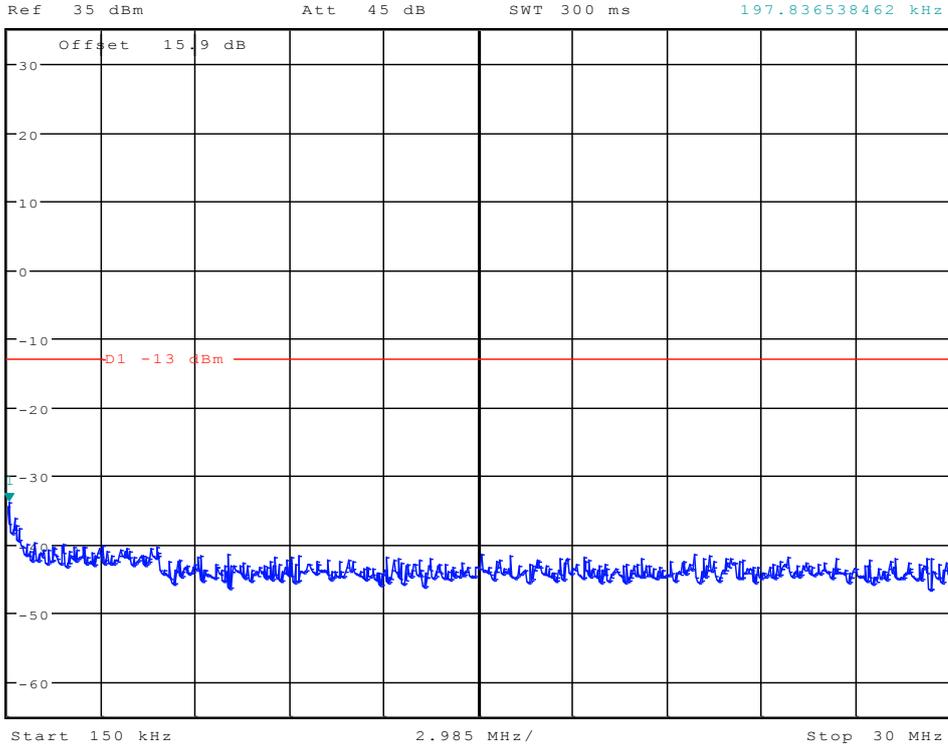
Date: 14.APR.2012 00:44:22
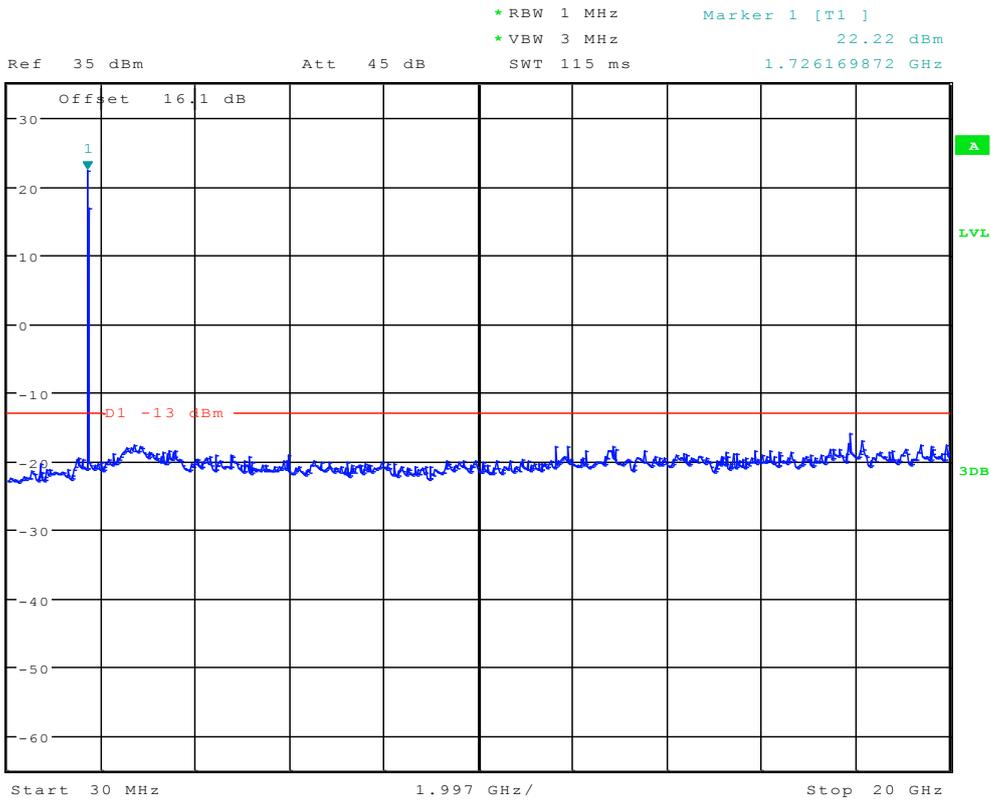
Date: 14.APR.2012 00:44:49

1.2 Test Mode = TM3

1.2.1.1 Channel = B
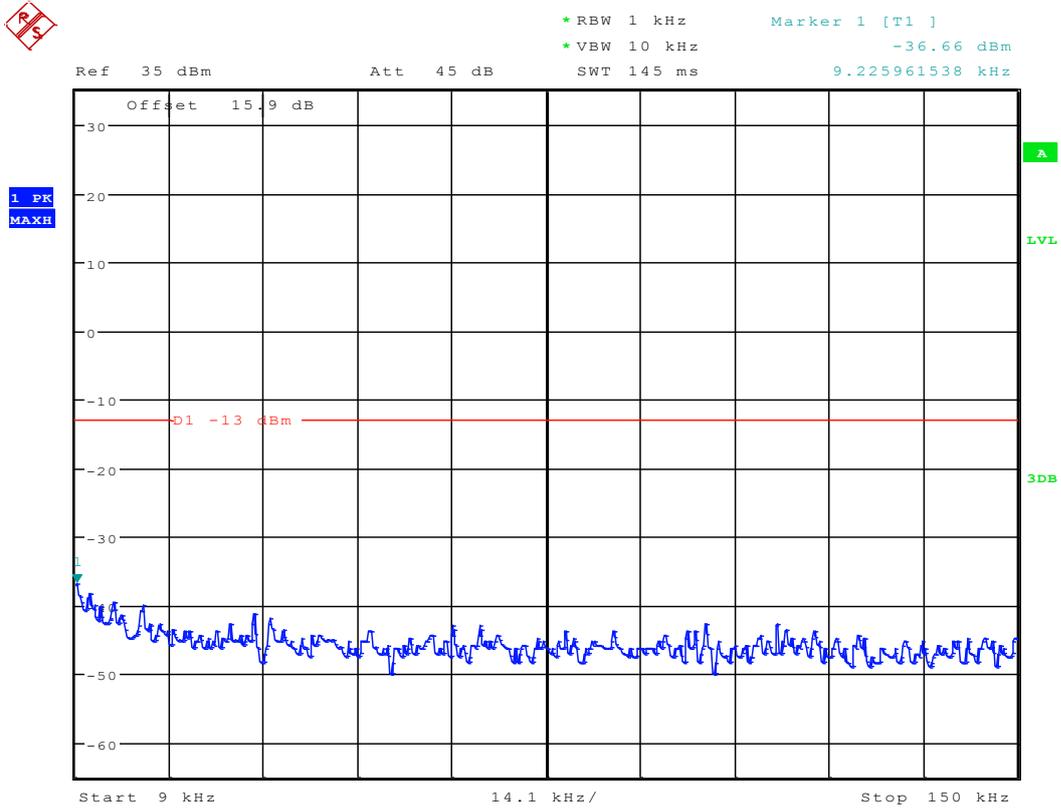
```
                                        * RBW  1 kHz        Marker 1 [T1 ]
                                        * VBW  10 kHz                -36.66 dBm
        Ref   35 dBm        Att   45 dB   SWT  145 ms        9.225961538 kHz

          Offset   15.9 dB                                                        A

   1 PK
   MAXH                                                                          LVL

                 D1  -13 dBm                                                     3DB

        Start  9 kHz              14.1 kHz/              Stop  150 kHz
```

Date: 14.APR.2012 00:44:59

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```
* RBW  1 MHz          Marker 1 [T1 ]
* VBW  3 MHz                  23.12 dBm
Ref  35 dBm        Att  45 dB   SWT  115 ms     1.694166667 GHz
```

Offset 16.1 dB

1 PK
MAXH

D1 -13 dBm

Start 30 MHz   1.997 GHz/   Stop 20 GHz

Date: 14.APR.2012 00:45:50

1.2.1.2 Channel = M

Date: 14.APR.2012 00:45:07

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```
                                    * RBW 10 kHz       Marker 1 [T1 ]
                                    * VBW 30 kHz              -33.32 dBm
     Ref  35 dBm          Att  45 dB   SWT 300 ms      197.836538462 kHz
```



```
Start  150 kHz              2.985 MHz/            Stop  30 MHz
```
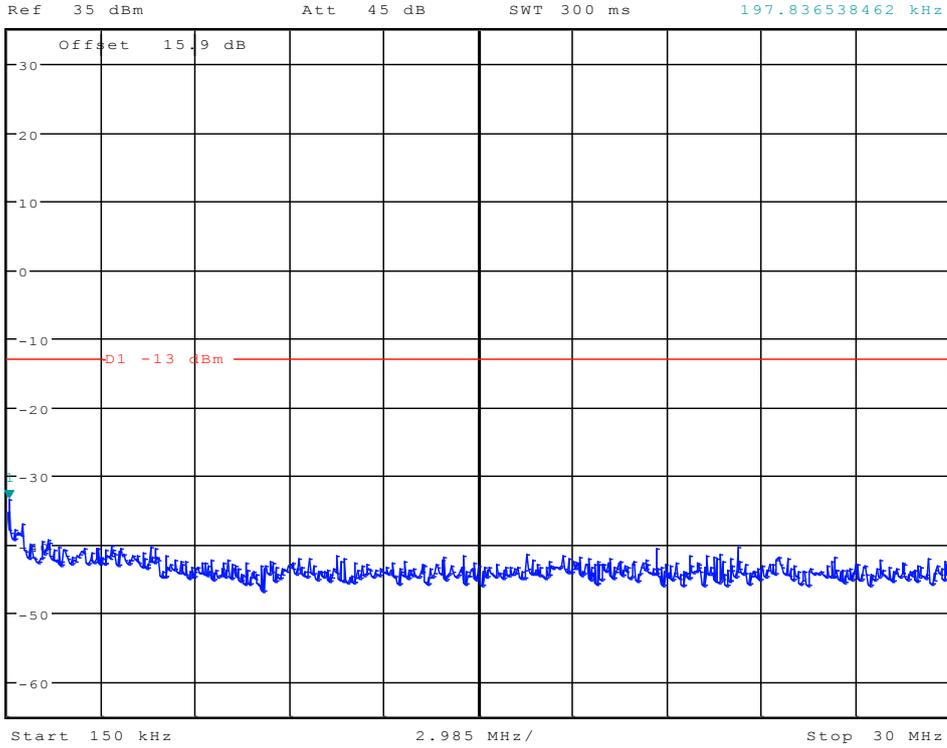
Date: 14.APR.2012 00:45:33
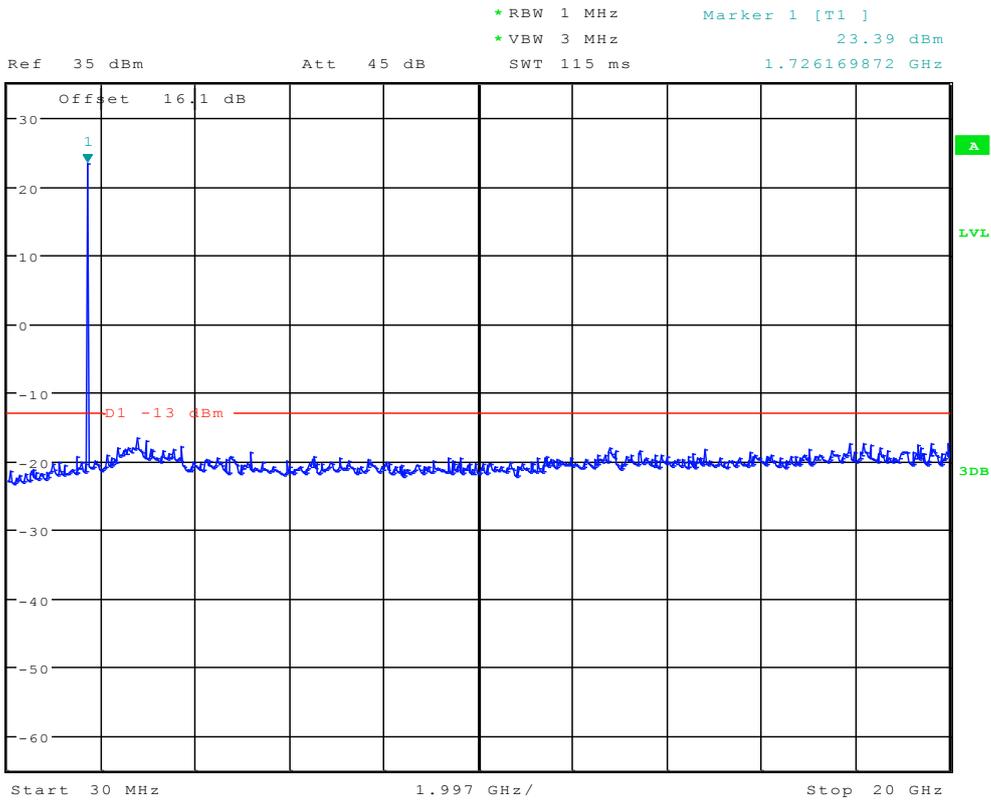
Date: 14.APR.2012 00:45:59

1.2.1.3 Channel =T

```
                                          * RBW  1 kHz        Marker 1 [T1 ]
                                          * VBW  10 kHz                 -38.67 dBm
   Ref   35 dBm              Att   45 dB    SWT  145 ms         9.225961538 kHz

        Offset   15.9 dB

 30

 20
1 PK
MAXH
 10

  0

-10
      D1 -13 dBm

-20

-30

-50

-60

   Start  9 kHz              14.1 kHz/              Stop  150 kHz
```
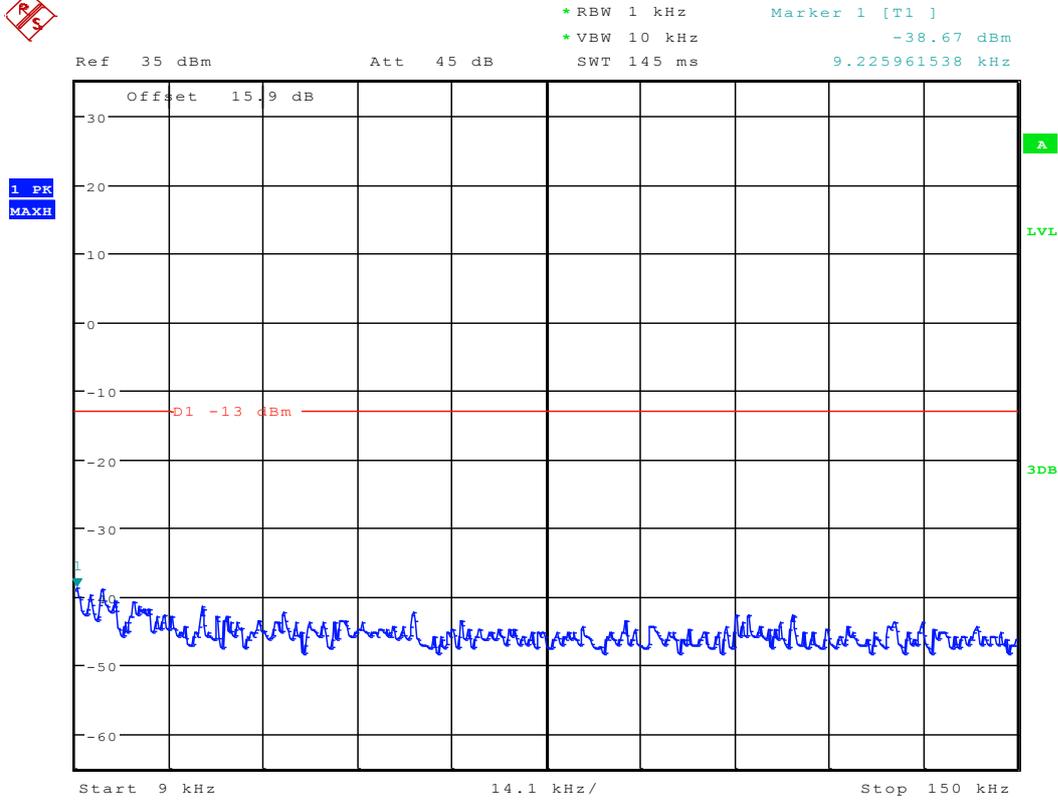
Date: 14.APR.2012 00:45:16

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Offset 16.1 dB

* RBW 1 MHz
* VBW 3 MHz

Ref 35 dBm   Att 45 dB   SWT 115 ms

Marker 1 [T1]
                22.30 dBm
1.726169872 GHz

1 PK
MAXH

A

LVL

D1 -13 dBm

3DB

Start 30 MHz   1.997 GHz/   Stop 20 GHz
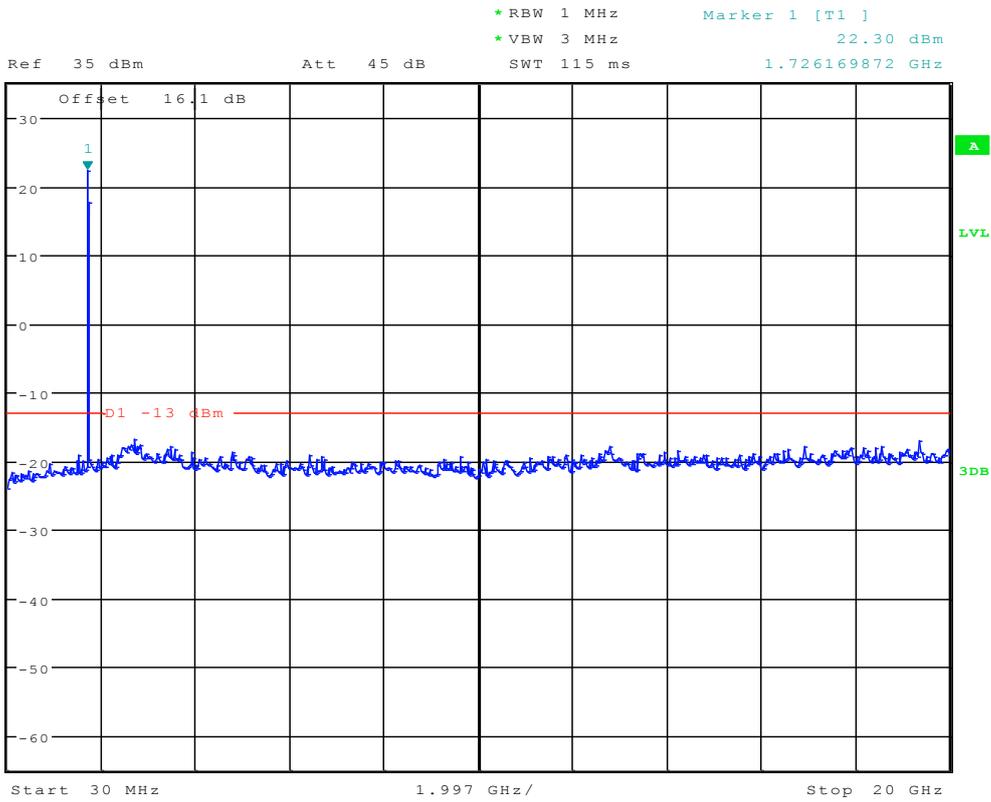
Date: 14.APR.2012 00:46:07

2   For EVDO 1700

2.1   Test Mode = Subtype 0

2.1.1.1 Channel = B

Date: 14.APR.2012 00:49:39

Date: 14.APR.2012 00:50:23

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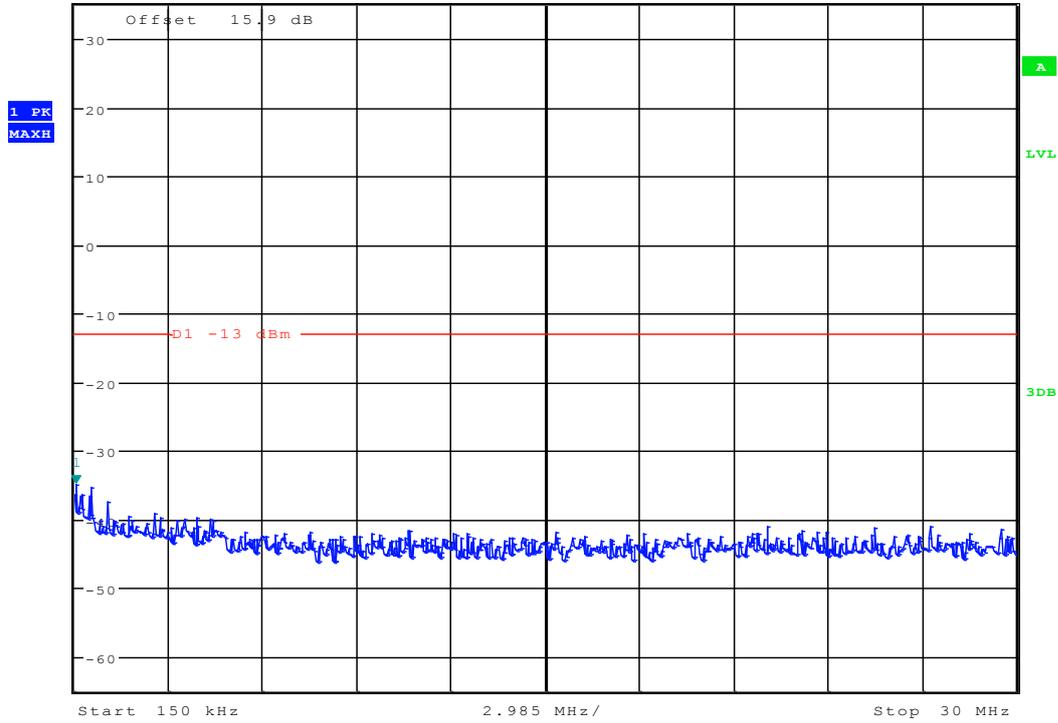
```
                                          * RBW  1 MHz        Marker 1 [T1 ]
                                          * VBW  3 MHz              23.88 dBm
         Ref   35 dBm        Att  45 dB     SWT  115 ms      1.694166667 GHz
```
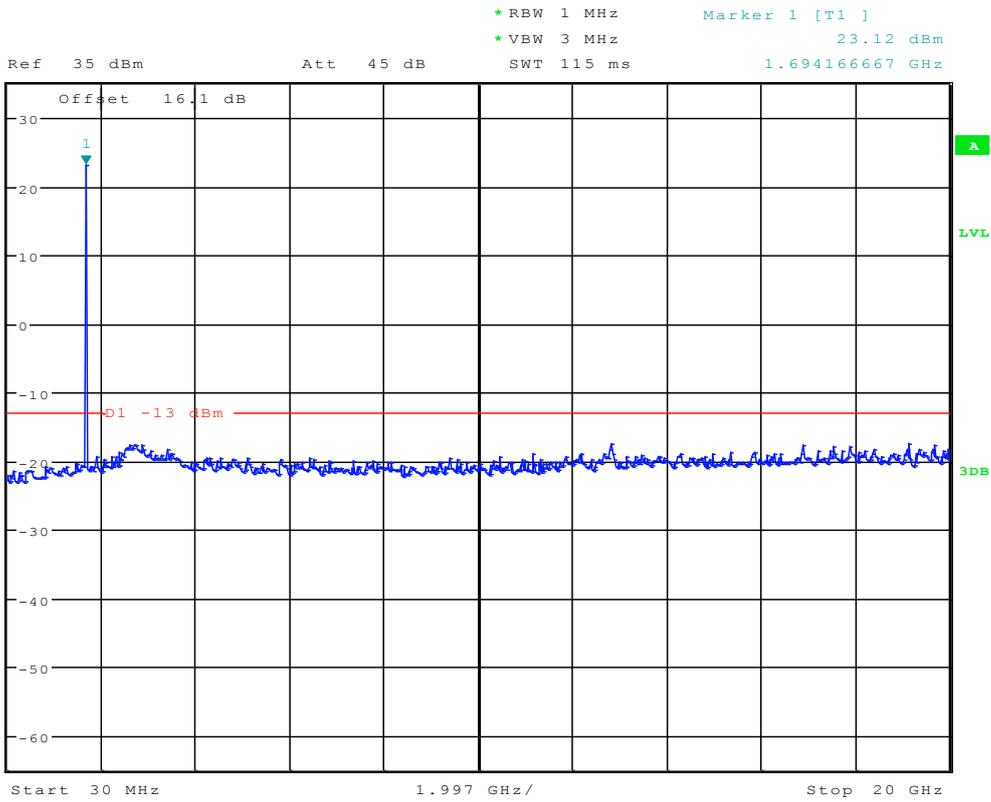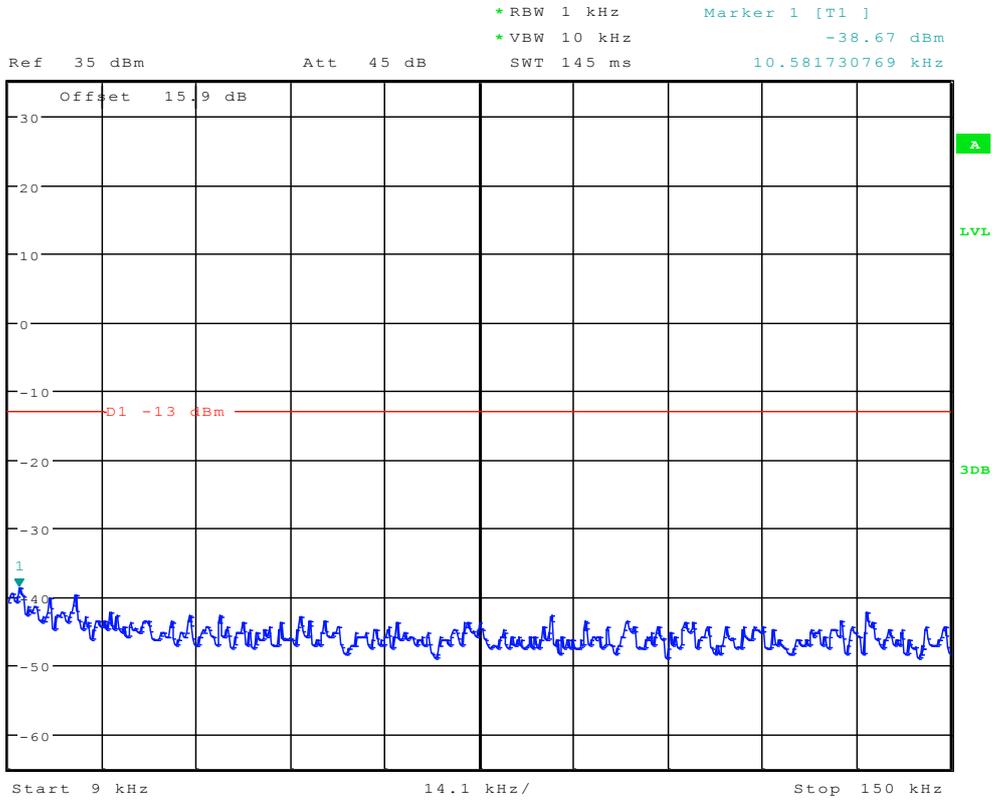


```
Start  30 MHz              1.997 GHz/              Stop  20 GHz
```

Date: 14.APR.2012 00:51:07

2.1.1.2 Channel = M

```
                              *RBW  1 kHz        Marker 1 [T1 ]
                              *VBW  10 kHz                -37.06 dBm
    Ref   35 dBm      Att  45 dB    SWT  145 ms   12.841346154 kHz
        Offset   15.9 dB
        30

1 PK    20                                                      A
MAXH
        10                                                      LVL

         0

       -10
         D1 -13 dBm

       -20                                                      3DB

       -30
         1

       -50

       -60

    Start  9 kHz            14.1 kHz/           Stop  150 kHz
```

Date: 14.APR.2012 00:49:54

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Date: 14.APR.2012 00:51:21

2.1.1.3 Channel = T

```
                                    * RBW  1 kHz      Marker 1 [T1 ]
                                    * VBW  10 kHz              -37.31 dBm
    Ref  35 dBm            Att  45 dB    SWT 145 ms     10.807692308 kHz

        Offset   15.9 dB                                              A
      30
                                                                     LVL
1 PK  20
MAXH
      10

       0

     -10
     ─D1 -13 dBm─                                                     3DB
     -20

     -30
   1
     -40

     -50

     -60

    Start  9 kHz              14.1 kHz/              Stop  150 kHz
```

Date: 14.APR.2012 00:50:08

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```
                                    * RBW  10 kHz      Marker 1 [T1 ]
                                    * VBW  30 kHz            -33.59 dBm
     Ref   35 dBm        Att  45 dB   SWT  300 ms     150.000000000 kHz

        Offset   15.9 dB                                              A
  30

  20                                                                 LVL
1 PK
MAXH
  10

   0

 -10
     D1 -13 dBm
 -20                                                                 3DB

 -30

 -40

 -50

 -60

  Start  150 kHz          2.985 MHz/           Stop  30 MHz
```
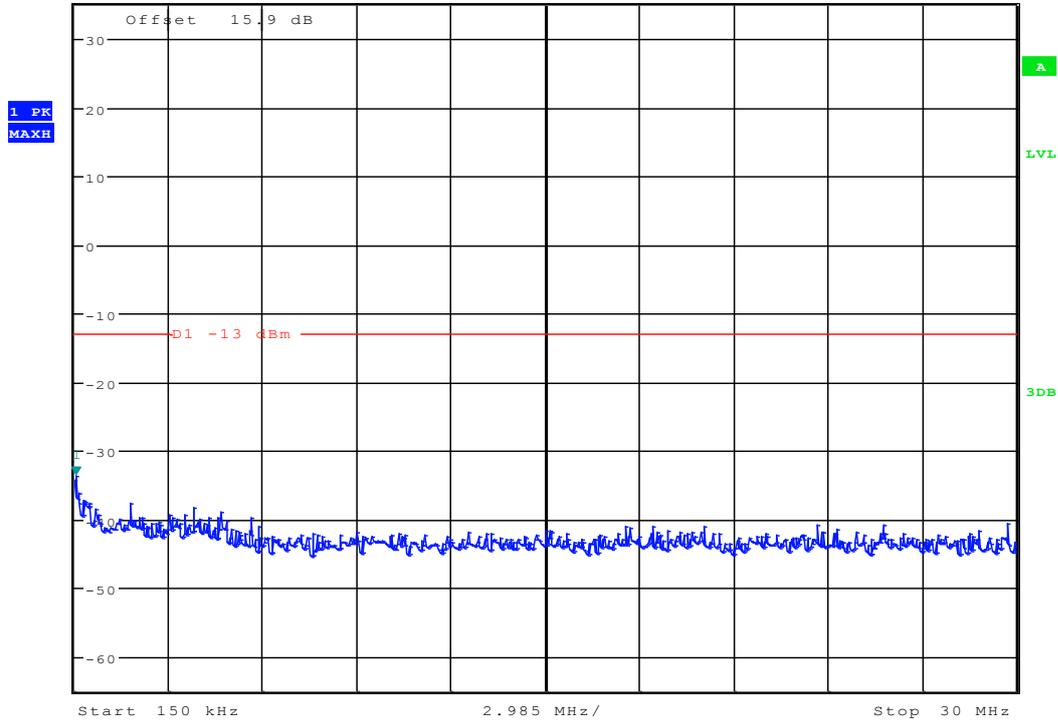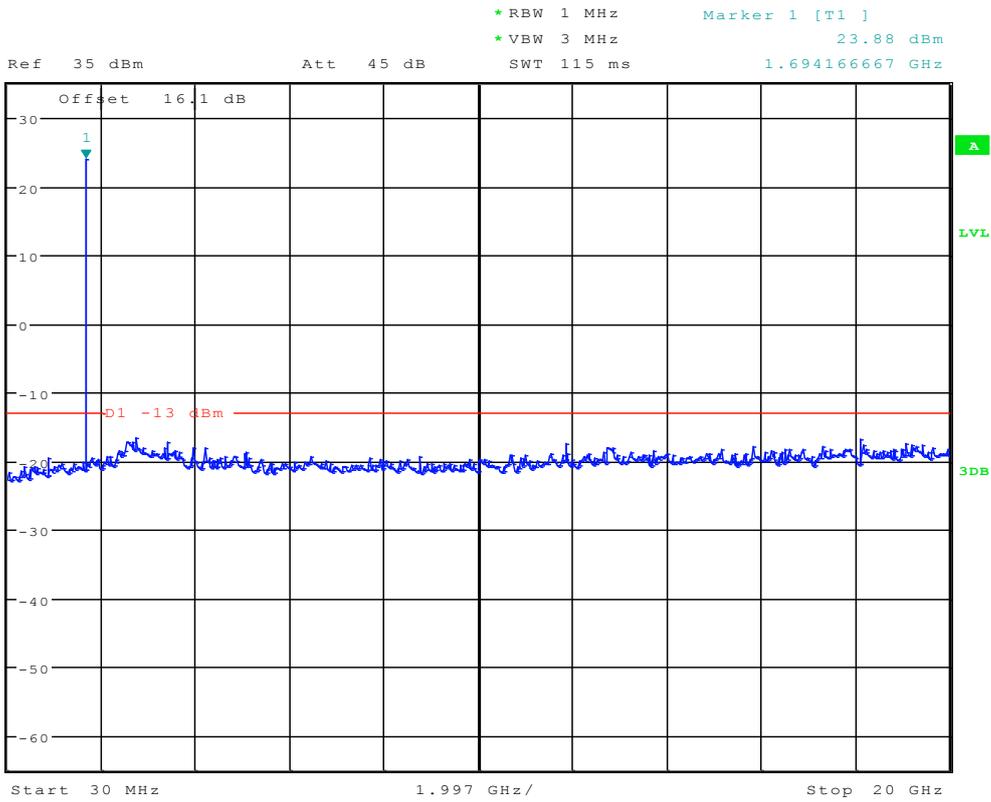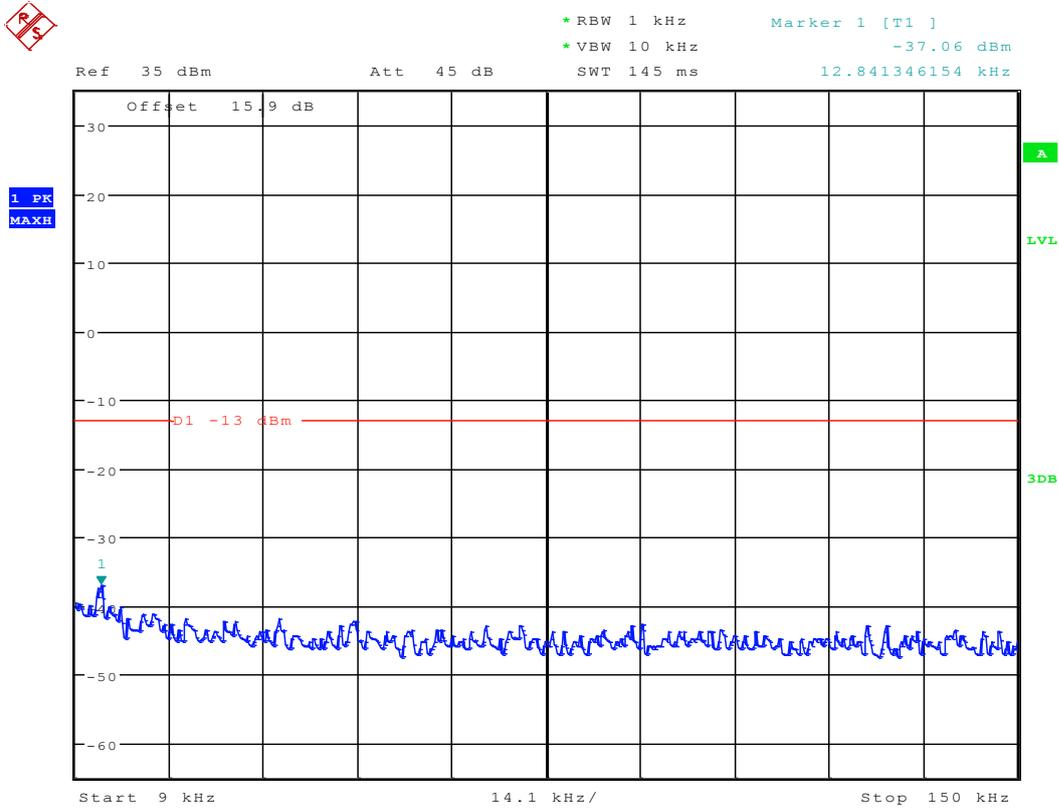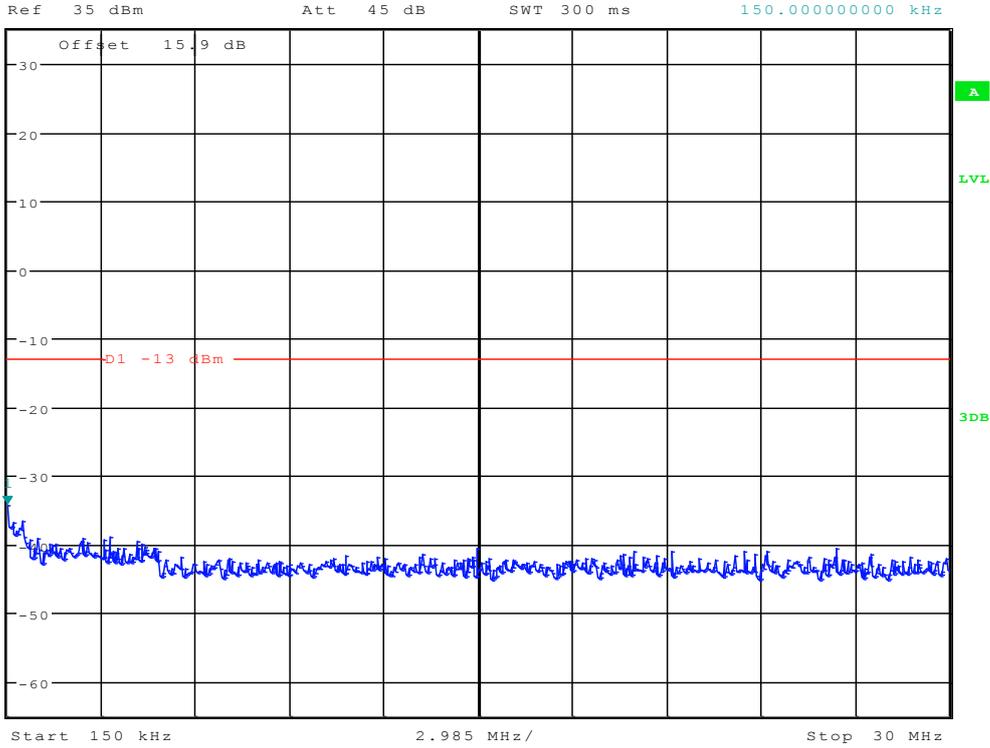
Date: 14.APR.2012 00:50:52

Ref 35 dBm   Att 45 dB   SWT 115 ms

* RBW 1 MHz   Marker 1 [T1]
* VBW 3 MHz   22.80 dBm
                            1.726169872 GHz

Offset 16.1 dB

1 PK
MAXH

A

LVL

D1 -13 dBm

3DB

Start 30 MHz   1.997 GHz/   Stop 20 GHz

Date: 14.APR.2012 00:51:35

2.2 Test Mode = Subtype 2

2.2.1.1 Channel = B

Modulation：BPSK

Date: 14.APR.2012 00:56:03

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Date: 14.APR.2012 00:56:28

```
                                        * RBW  1 MHz          Marker 1 [T1 ]
                                        * VBW  3 MHz                 24.65 dBm
    Ref   35 dBm              Att  45 dB    SWT  115 ms       1.694166667 GHz
        Offset   16.1 dB
     30
       1                                                                      A
     20
                                                                            LVL
     10

      0

    -10
        D1  -13 dBm                                                         3DB
    -20

    -30

    -40

    -50

    -60

    Start  30 MHz              1.997 GHz/              Stop  20 GHz
```

1 PK
MAXH
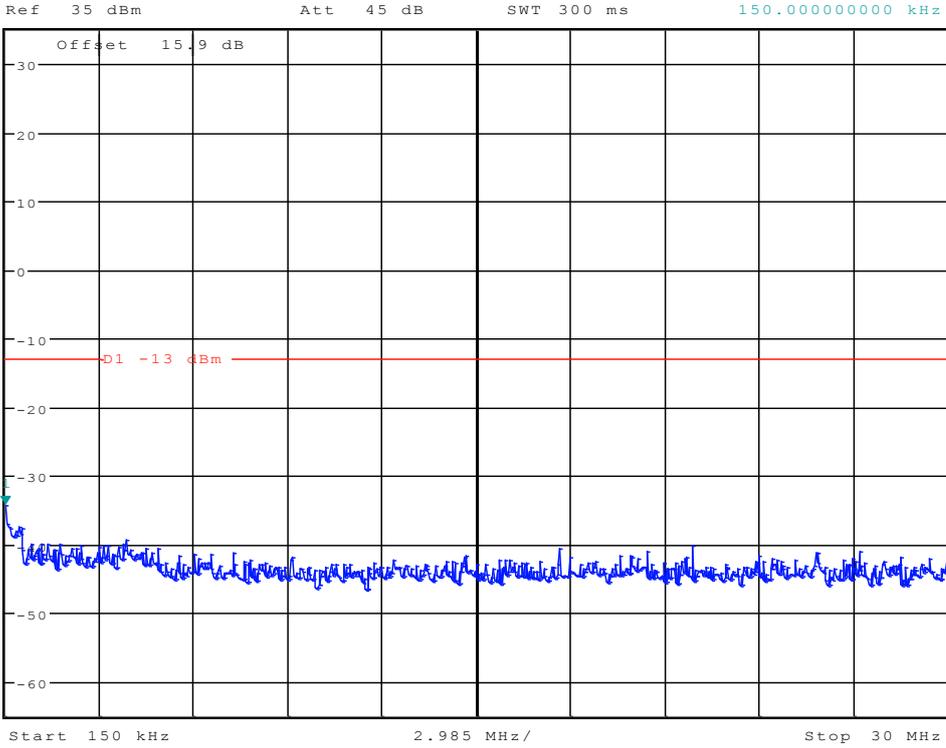
Date: 14.APR.2012 00:56:54

Modulation：QPSK

```
                                          *RBW  1 kHz        Marker 1 [T1 ]
                                          *VBW  10 kHz              -38.38 dBm
         Ref   35 dBm            Att  45 dB    SWT  145 ms        9.903846154 kHz
```
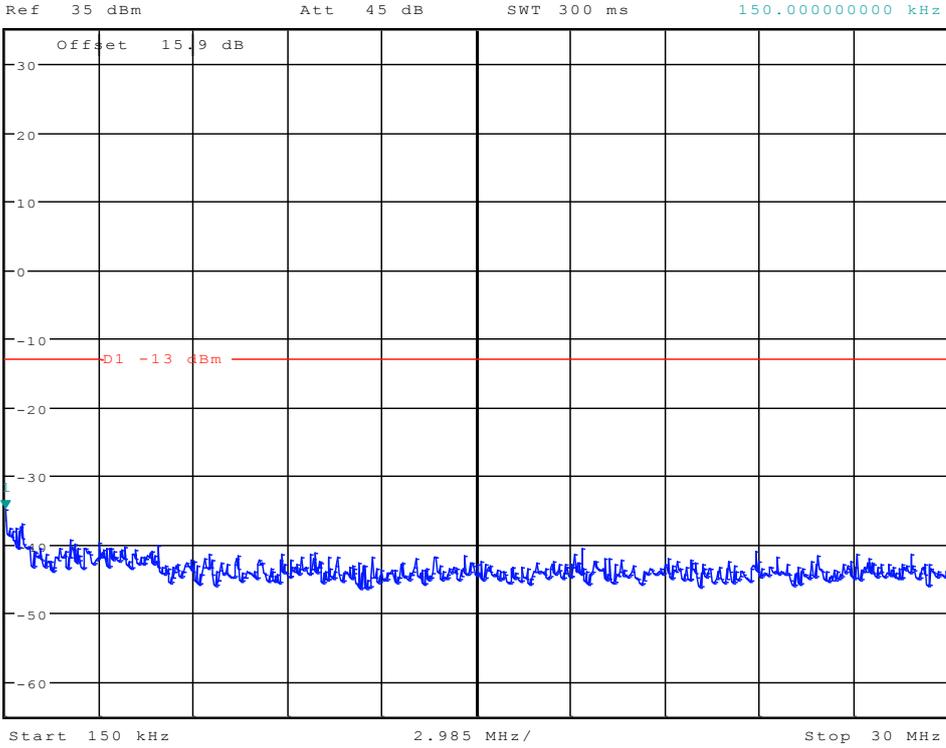


```
Date: 14.APR.2012  00:57:19
```

Date: 14.APR.2012 00:57:45

Date: 14.APR.2012   00:58:11

Modulation：8PSK


```
                                    * RBW  1 kHz        Marker 1 [T1 ]
                                    * VBW  10 kHz               -38.19 dBm
     Ref   35 dBm        Att   45 dB    SWT  145 ms         9.000000000 kHz

          Offset   15.9 dB                                              A
    30
                                                                      LVL
    20
    10
     0
   -10
        D1  -13 dBm
   -20                                                                 3DB
   -30
   -40
   -50
   -60
     Start  9 kHz            14.1 kHz/            Stop  150 kHz
```

Date: 14.APR.2012 00:58:37

Date: 14.APR.2012 00:59:02

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```
                                        * RBW  1 MHz        Marker 1 [T1 ]
                                        * VBW  3 MHz                 23.90 dBm
        Ref  35 dBm           Att  45 dB   SWT  115 ms      1.694166667 GHz
```
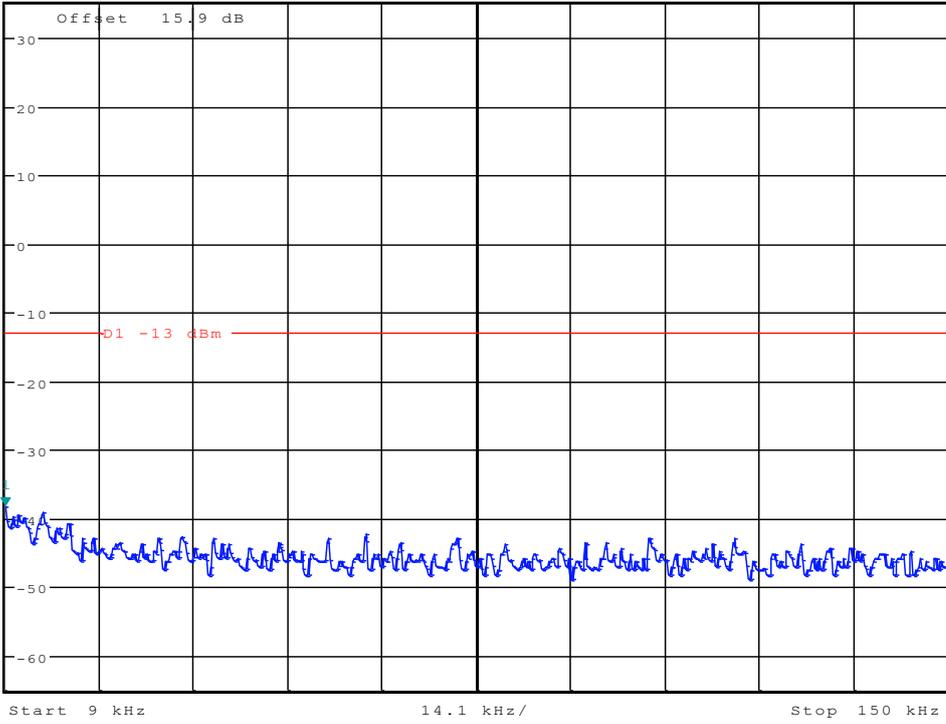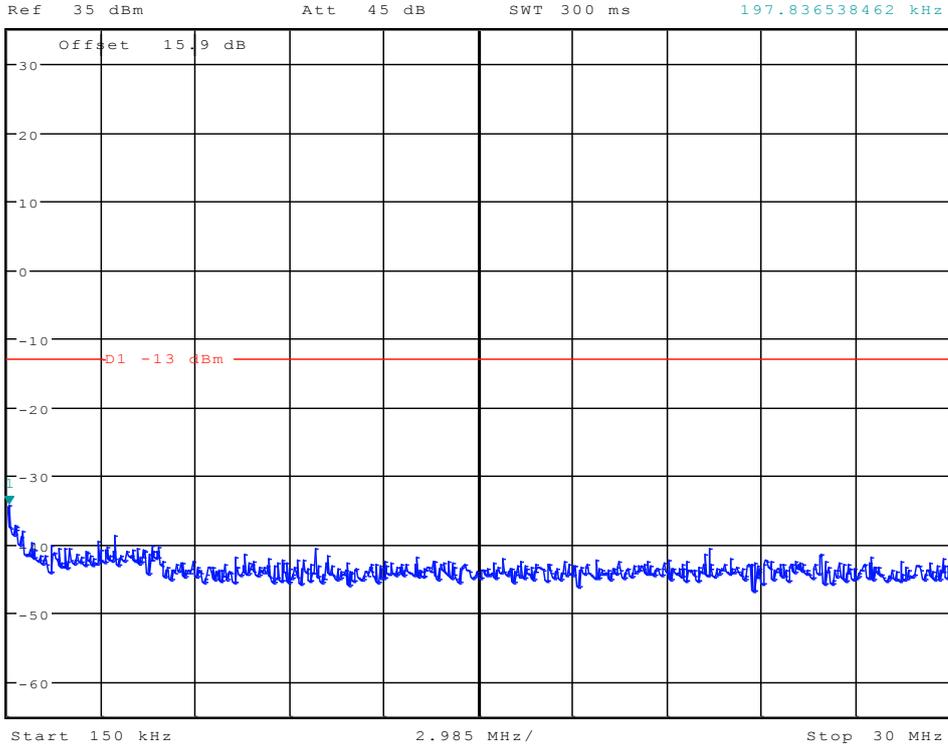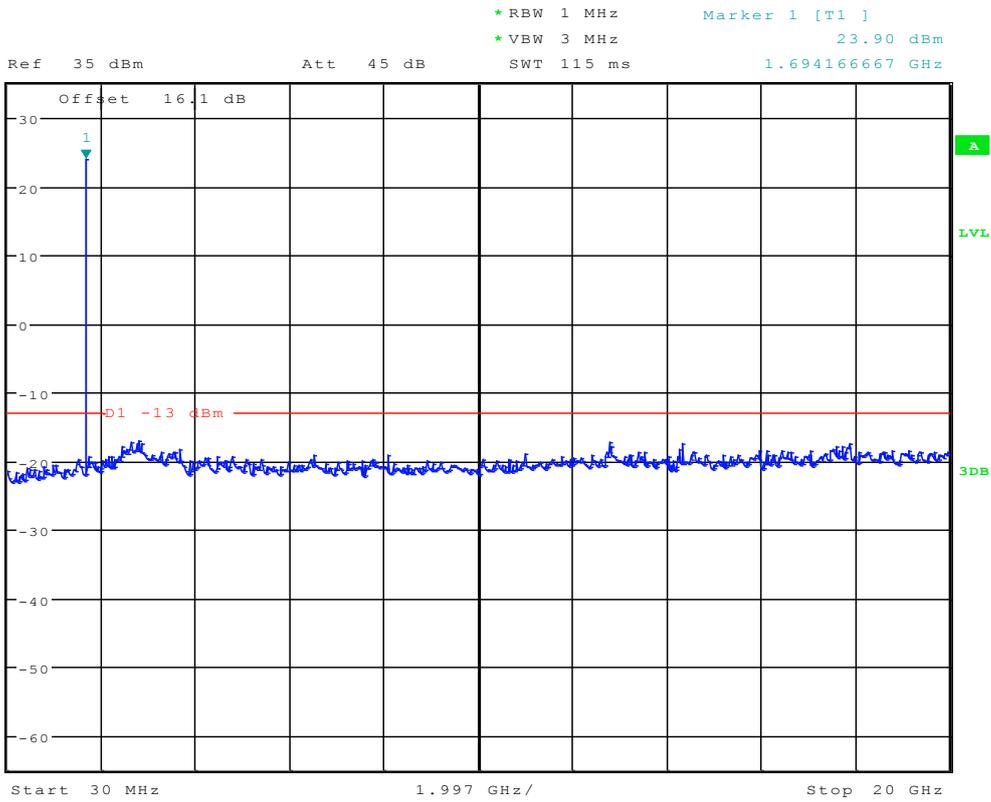
Date: 14.APR.2012 00:59:28

2.2.1.2 Channel = M

Modulation：BPSK


```
                                      * RBW  1 kHz        Marker 1 [T1 ]
                                      * VBW  10 kHz              -38.87 dBm
      Ref  35 dBm         Att  45 dB    SWT  145 ms       9.903846154 kHz

         Offset   15.9 dB
  30

  20                                                                          A

  10                                                                         LVL

   0

 -10
      D1 -13 dBm

 -20                                                                         3DB

 -30

 -50

 -60

  Start  9 kHz              14.1 kHz/              Stop  150 kHz
```
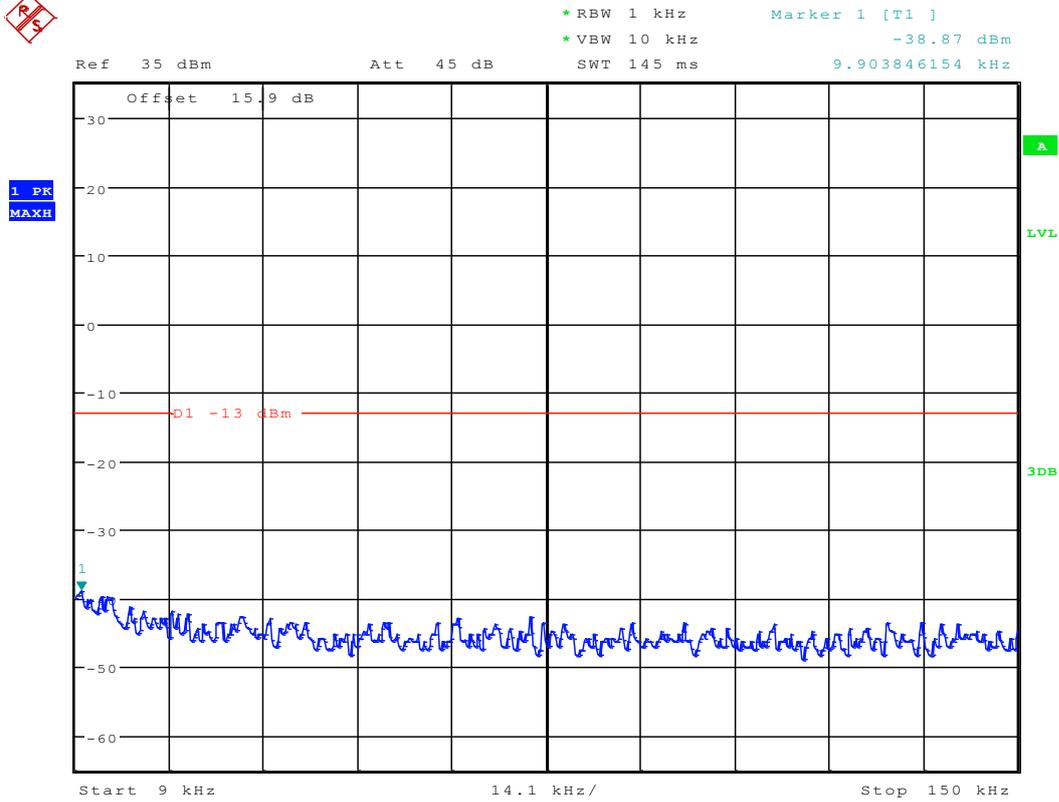
Date: 14.APR.2012 00:56:11

Date: 14.APR.2012 00:56:36

Date: 14.APR.2012 00:57:02

Modulation：QPSK
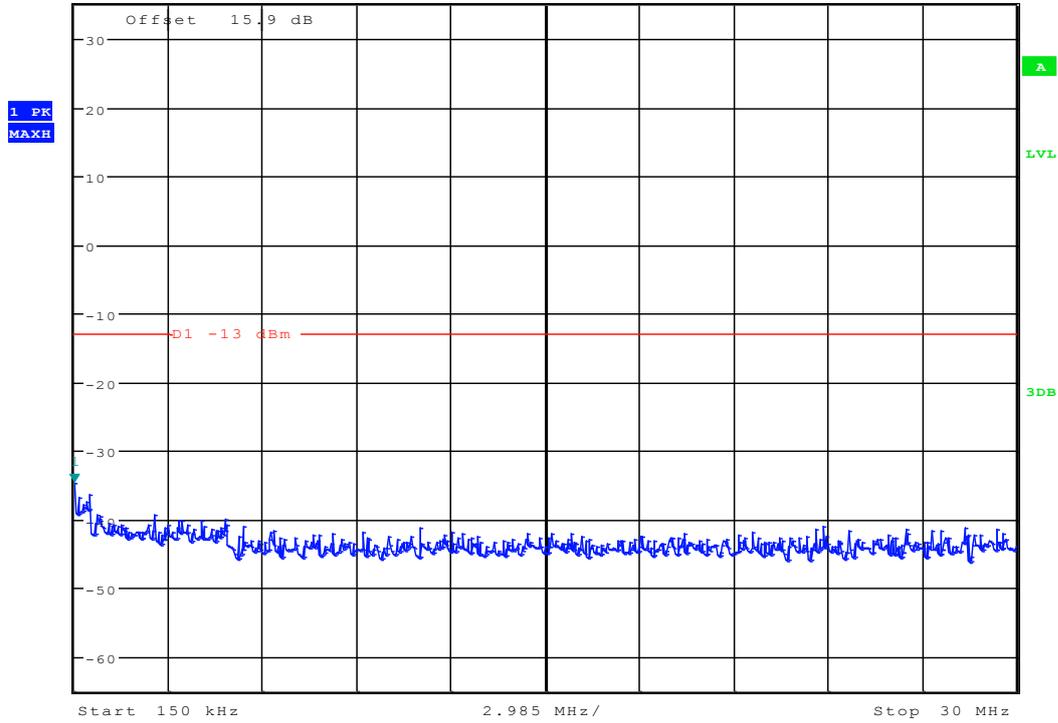


```
                                    * RBW 1 kHz          Marker 1 [T1 ]
                                    * VBW 10 kHz                -38.87 dBm
      Ref  35 dBm        Att  45 dB   SWT 145 ms        9.451923077 kHz

        Offset  15.9 dB                                                    A
    -30

    -20                                                                    LVL

    -10

     0

    -10
        D1 -13 dBm
    -20                                                                    3DB

    -30

    -40 1

    -50

    -60

    Start 9 kHz              14.1 kHz/              Stop 150 kHz
```

Date: 14.APR.2012 00:57:28

```
                                    * RBW  10 kHz      Marker 1 [T1 ]
                                    * VBW  30 kHz              -33.32 dBm
     Ref   35 dBm        Att  45 dB   SWT  300 ms      150.000000000 kHz
```
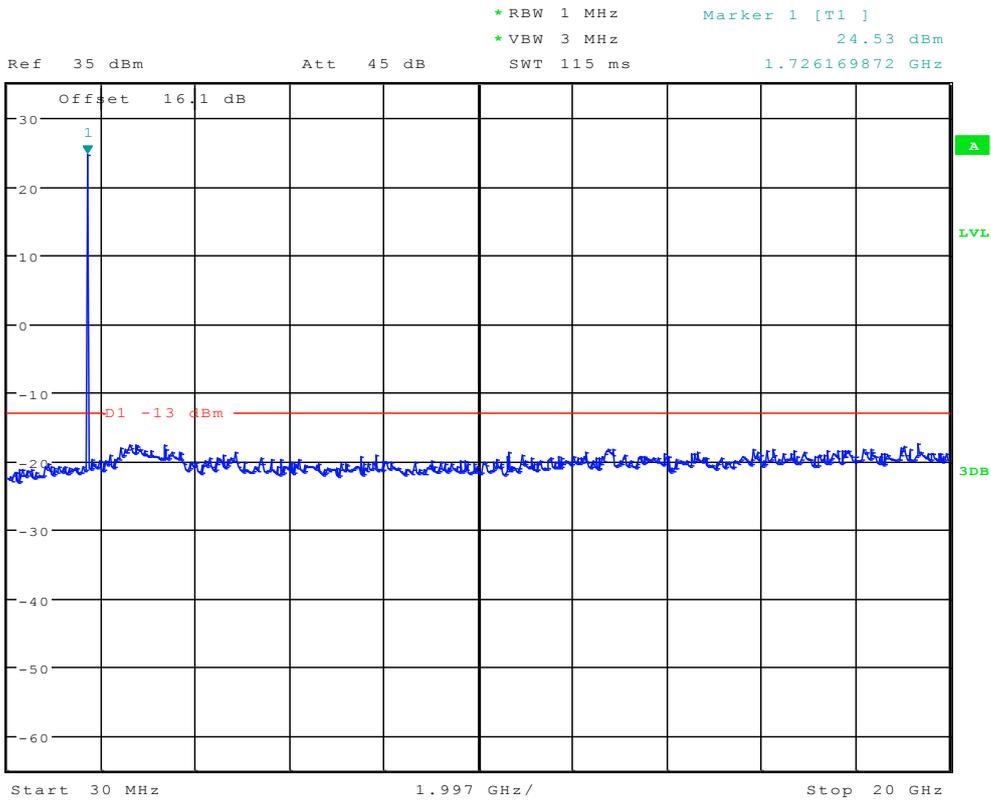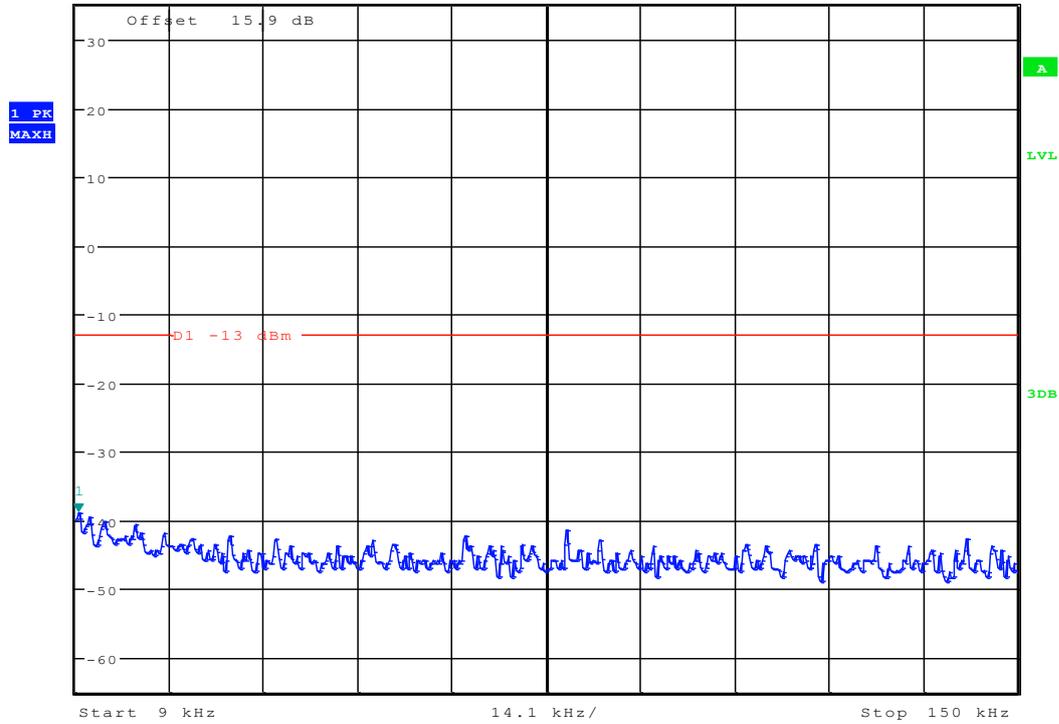
Date: 14.APR.2012 00:57:54

Date: 14.APR.2012 00:58:19

Modulation：8PSK

```
                                        * RBW  1 kHz        Marker 1 [T1 ]
                                        * VBW  10 kHz                -36.27 dBm
     Ref   35 dBm           Att  45 dB  SWT 145 ms          10.129807692 kHz
        Offset   15.9 dB
     -30

     -20

     -10

      0

     -10
         D1 -13 dBm

     -20

     -30

     1

     -50

     -60

     Start  9 kHz              14.1 kHz/                   Stop  150 kHz
```
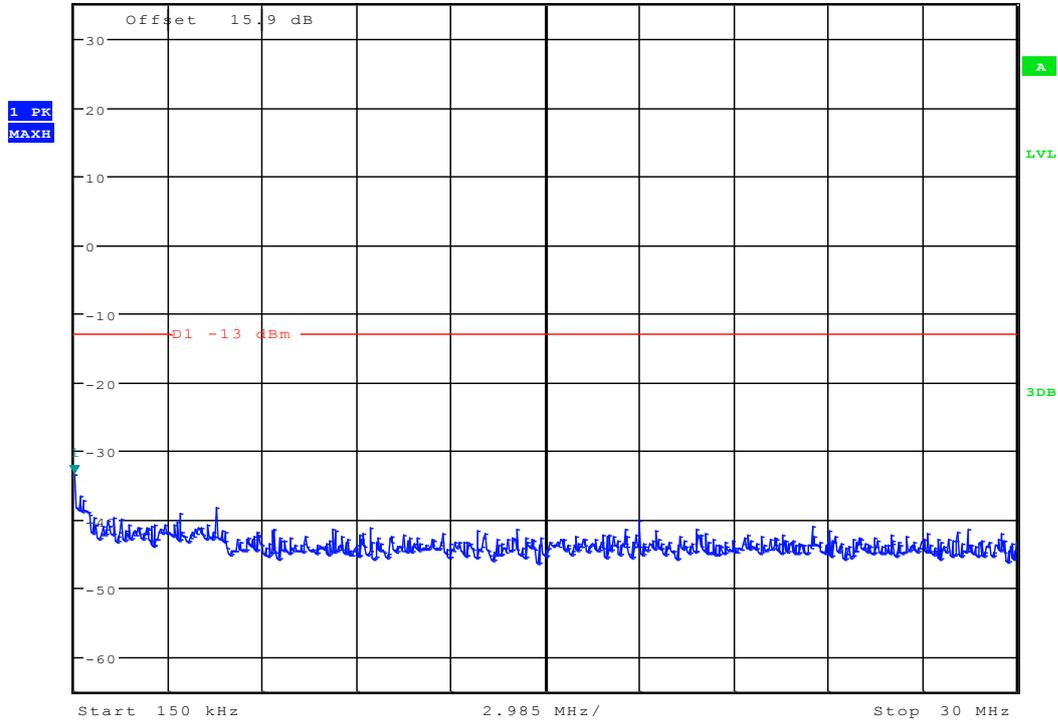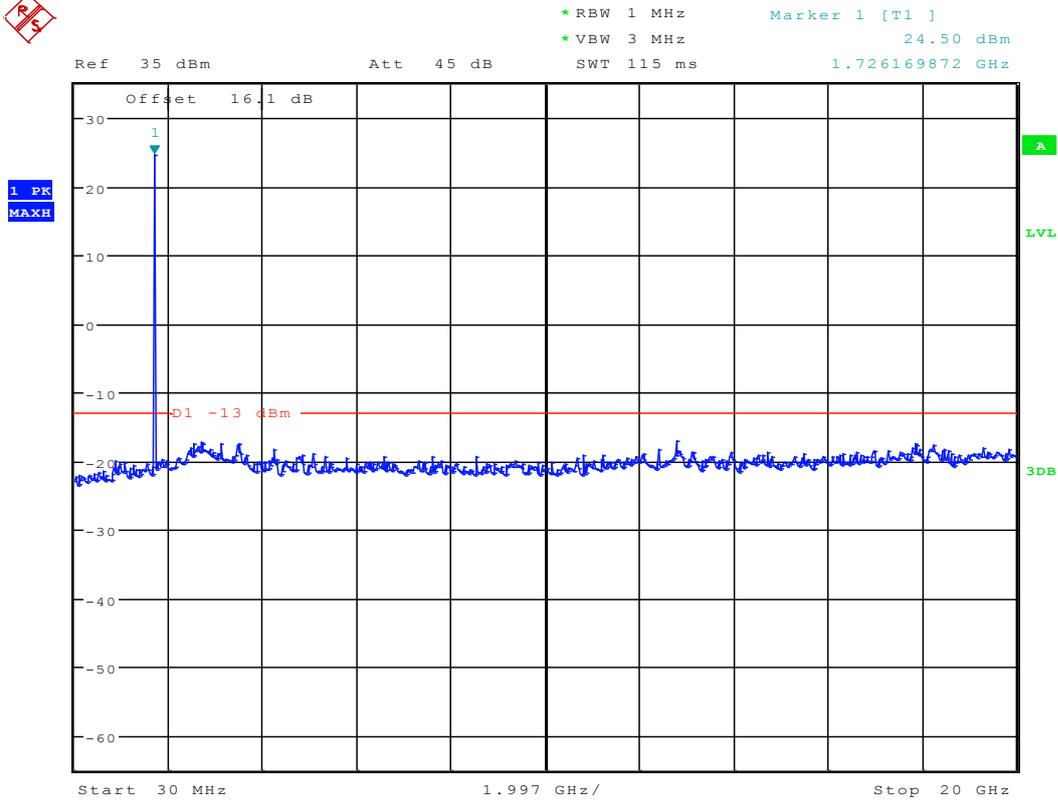
A

LVL

3DB

1 PK
MAXH

Date: 14.APR.2012 00:58:45

```
                              * RBW  10 kHz        Marker 1 [T1 ]
                              * VBW  30 kHz                -34.70 dBm
     Ref  35 dBm        Att  45 dB    SWT  300 ms    150.000000000 kHz
```
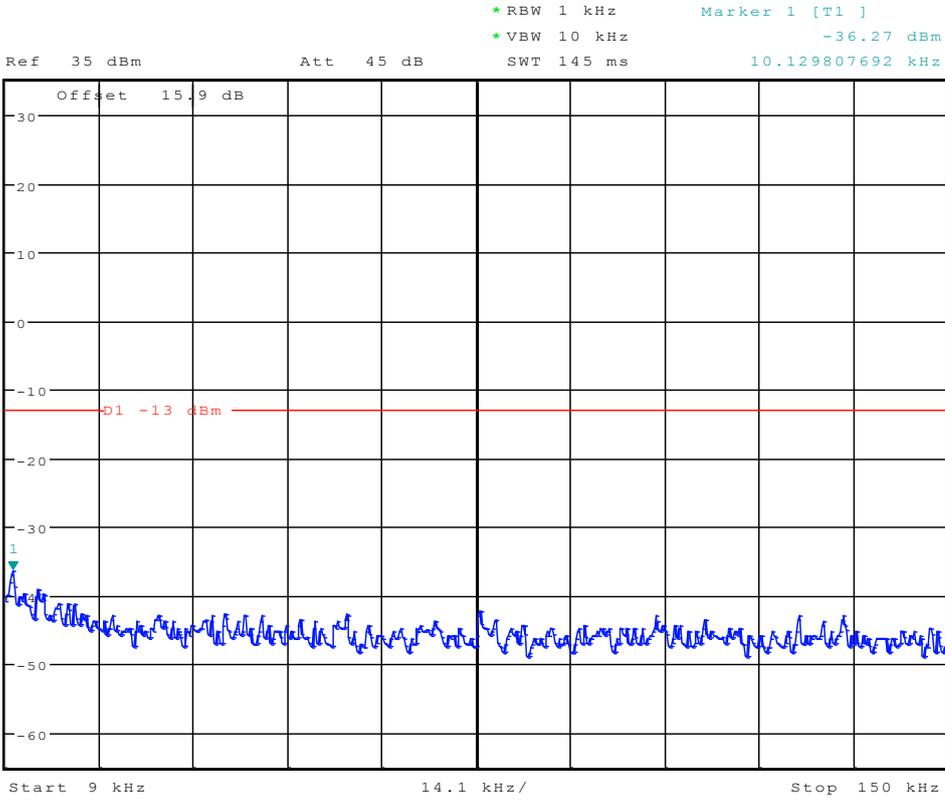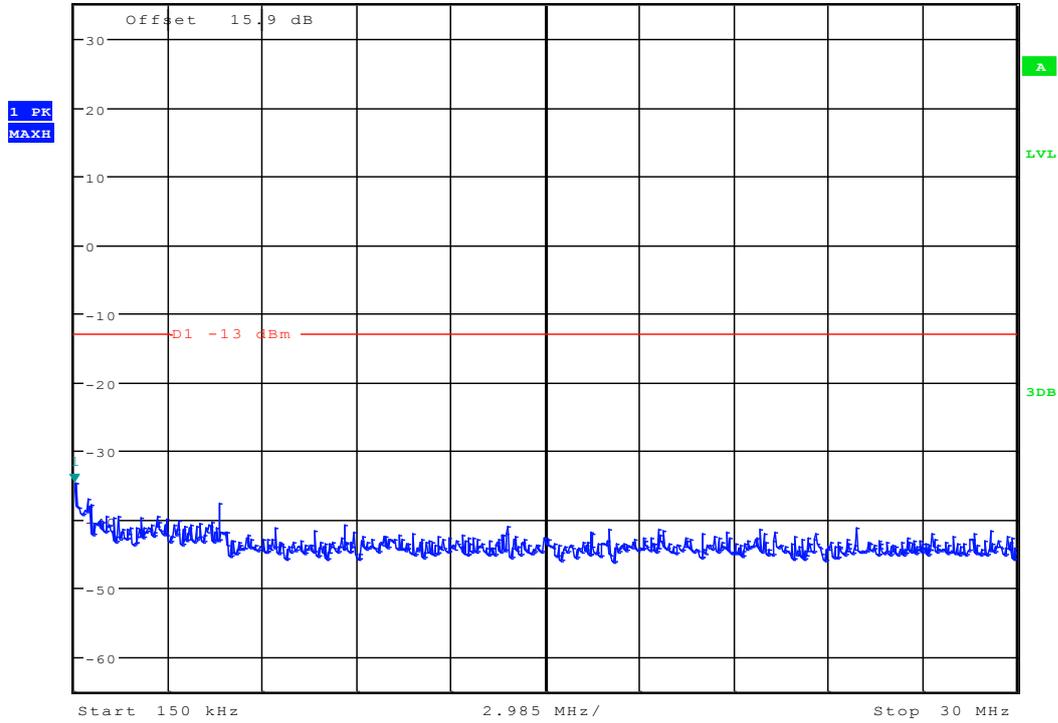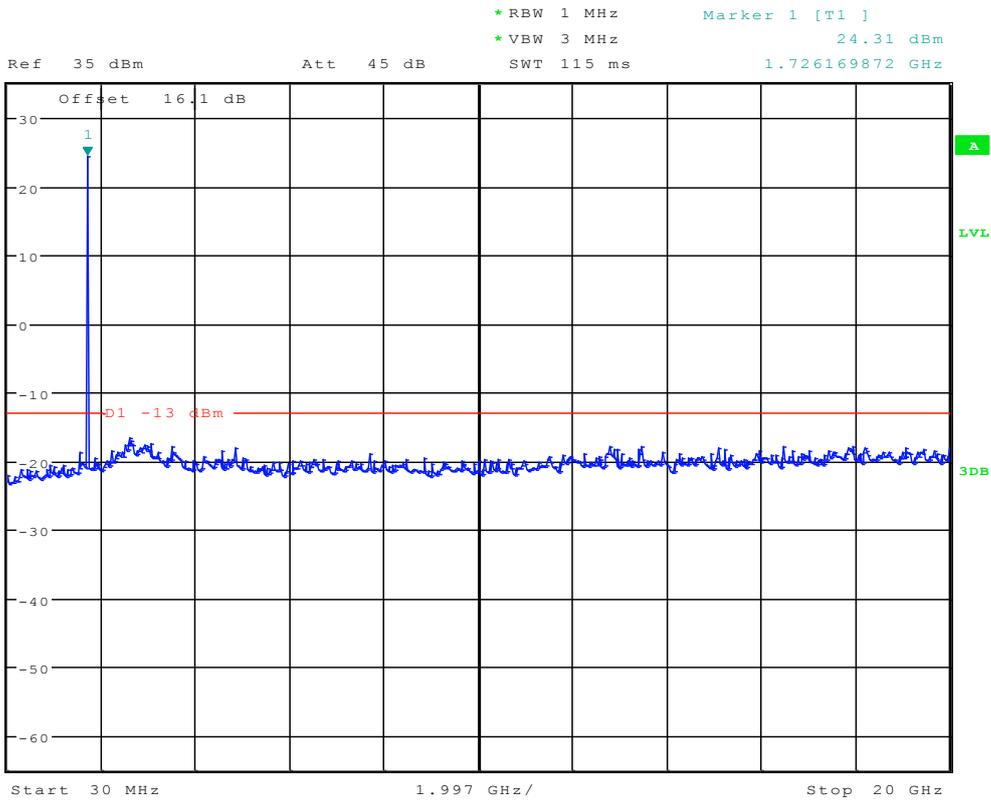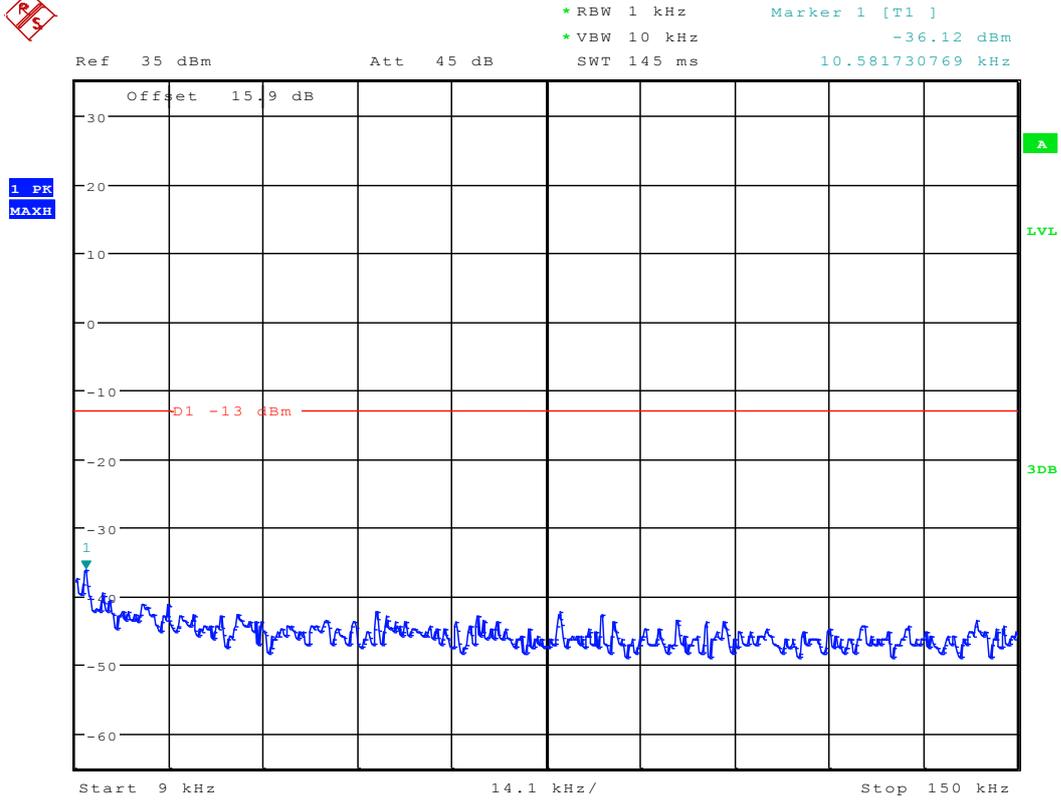
Offset 15.9 dB

1 PK
MAXH

A

LVL

D1 -13 dBm

3DB

Start 150 kHz   2.985 MHz/   Stop 30 MHz

Date: 14.APR.2012 00:59:11

* RBW 1 MHz
* VBW 3 MHz
Marker 1 [T1]
24.31 dBm
1.726169872 GHz

Ref 35 dBm   Att 45 dB   SWT 115 ms

Offset 16.1 dB

Start 30 MHz   1.997 GHz/   Stop 20 GHz

Date: 14.APR.2012 00:59:37

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2.2.1.3 Channel = T

Modulation：BPSK


```
                                              * RBW  1 kHz        Marker 1 [T1 ]
                                              * VBW  10 kHz              -36.12 dBm
      Ref   35 dBm           Att   45 dB       SWT  145 ms        10.581730769 kHz
```

Date: 14.APR.2012 00:56:19

Date: 14.APR.2012 00:56:45

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SYBH(Z-RF)014042012-2003

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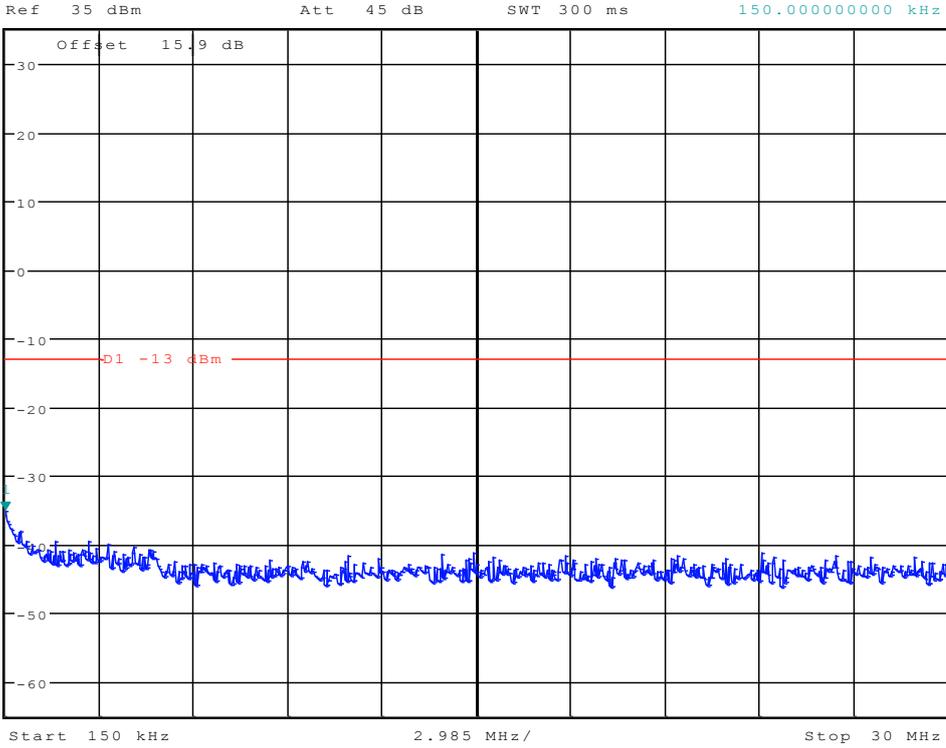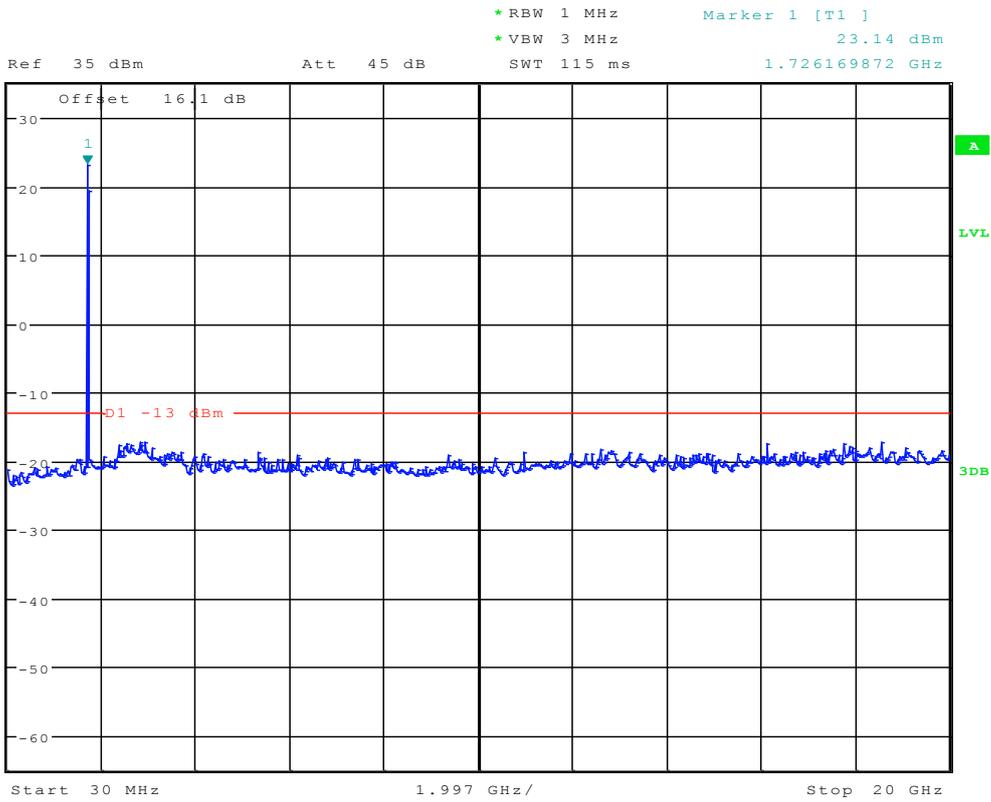
Date: 14.APR.2012 00:57:11

Modulation：QPSK

```
                                          * RBW  1 kHz      Marker 1 [T1 ]
                                          * VBW  10 kHz              -35.42 dBm
     Ref   35 dBm              Att  45 dB   SWT  145 ms     10.355769231 kHz

         Offset   15.9 dB                                              [A]
    30

    20                                                                LVL
1 PK
MAXH
    10

     0

   -10
        D1 -13 dBm
   -20                                                                3DB

   -30
      1

   -40

   -50

   -60

    Start  9 kHz              14.1 kHz/              Stop  150 kHz
```
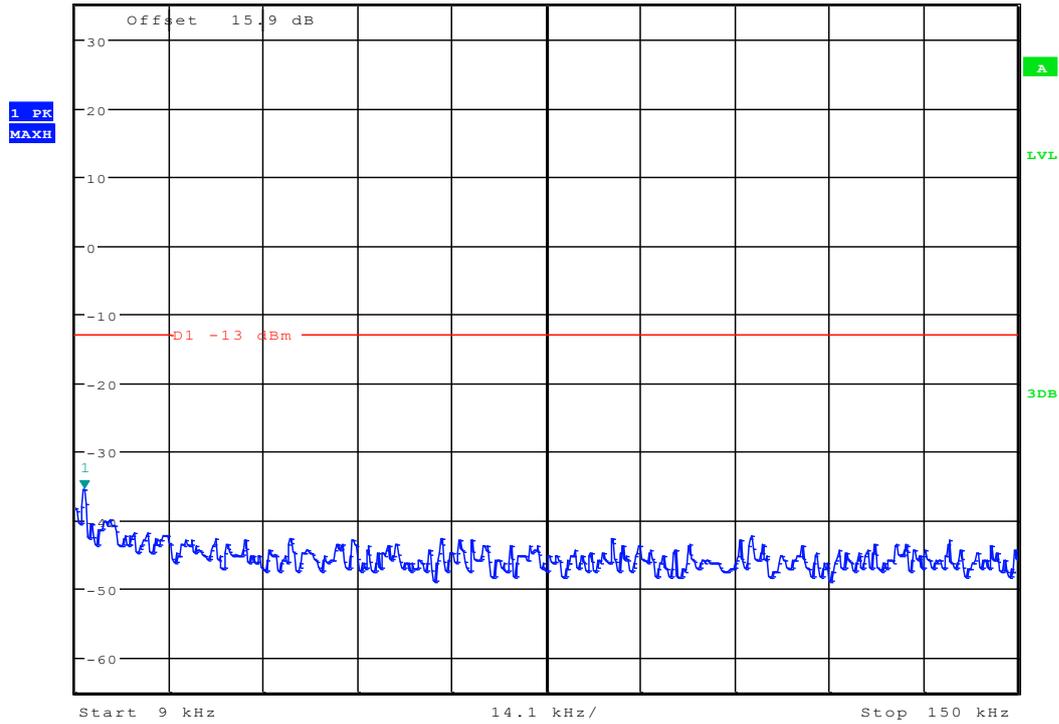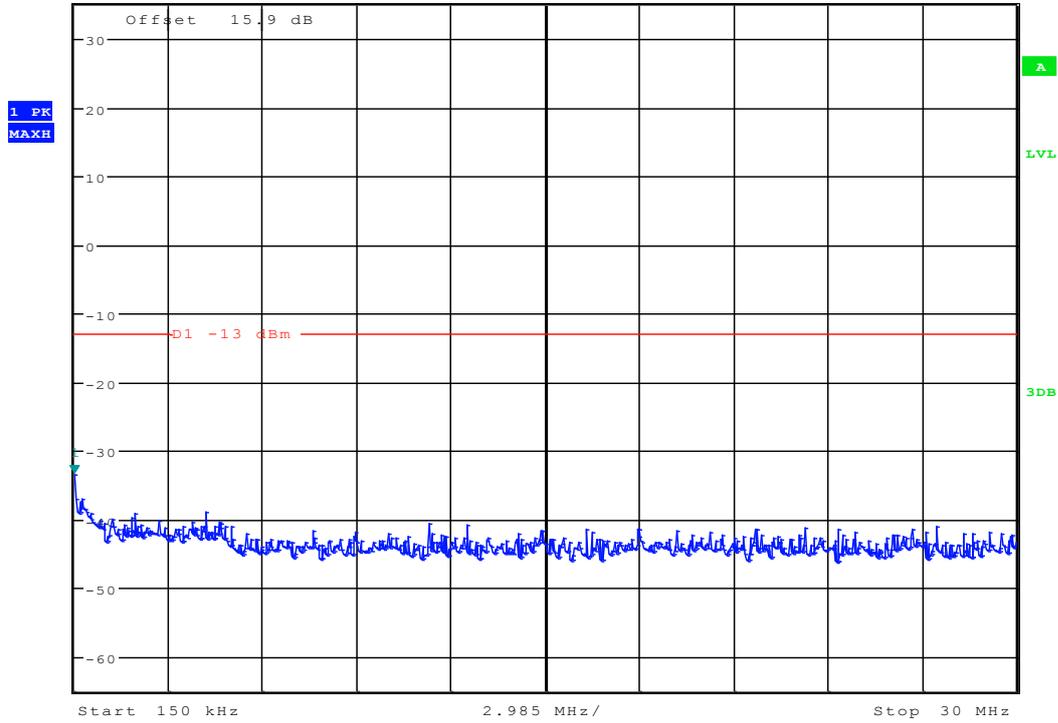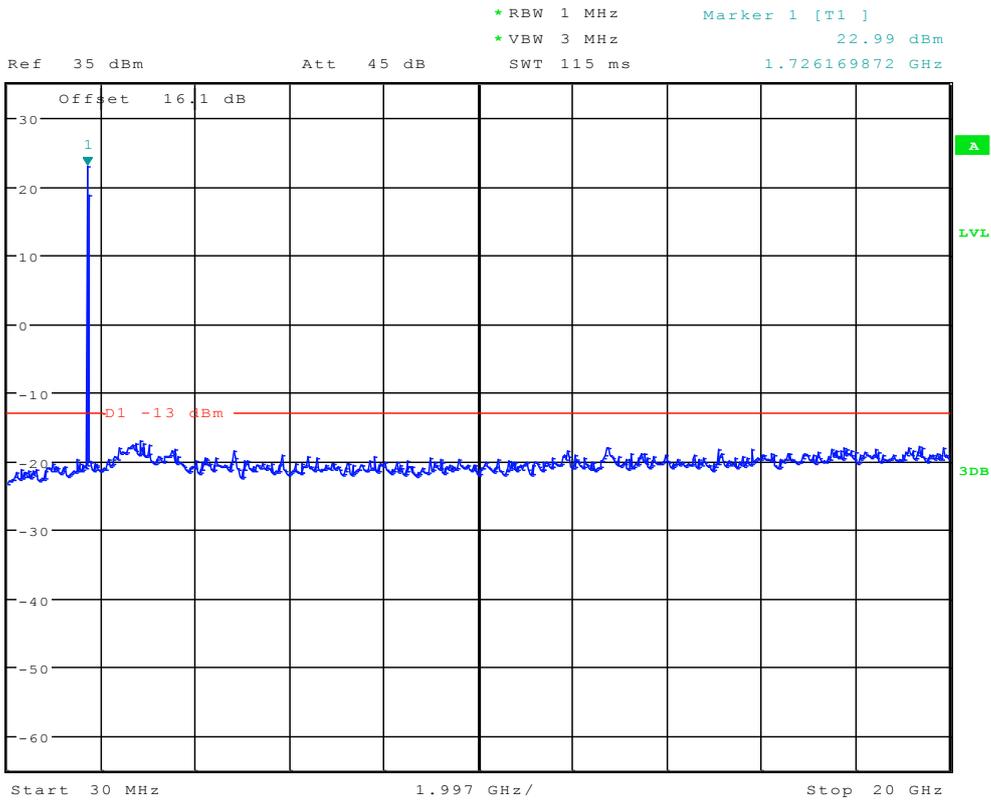
Date: 14.APR.2012 00:57:36

```
                                              * RBW  10 kHz        Marker 1 [T1 ]
                                              * VBW  30 kHz                -33.43 dBm
          Ref   35 dBm          Att   45 dB    SWT  300 ms        150.000000000 kHz

              Offset   15.9 dB                                                          A
    1 PK
    MAXH                                                                               LVL

                                                                                       3DB
              D1  -13 dBm


          Start  150 kHz              2.985 MHz/              Stop  30 MHz
```
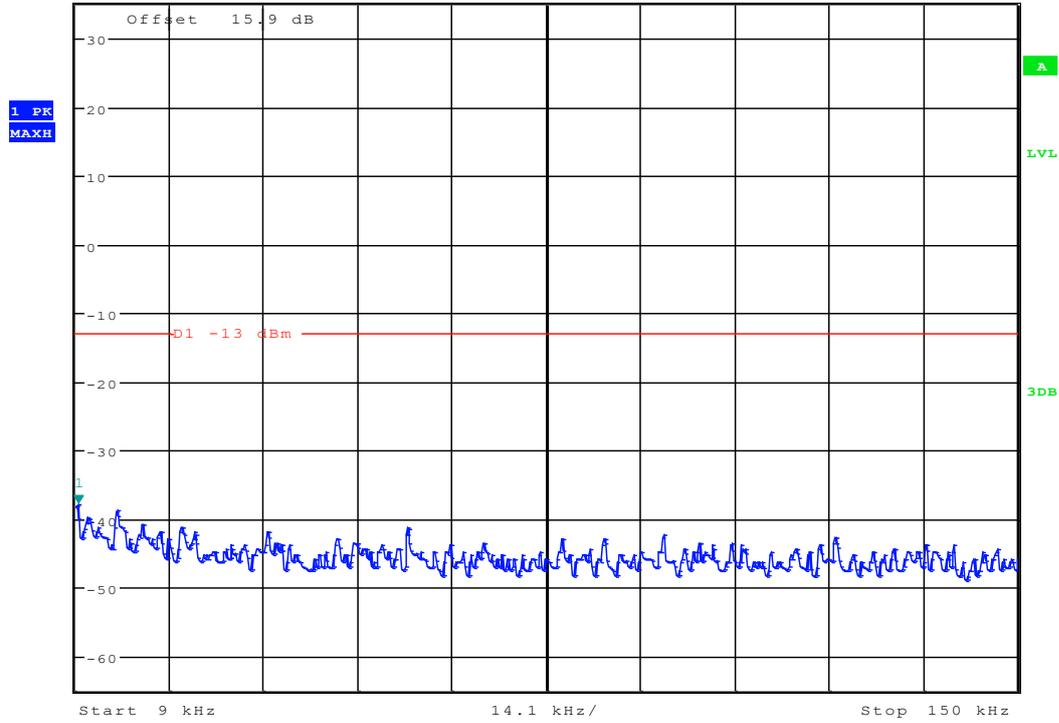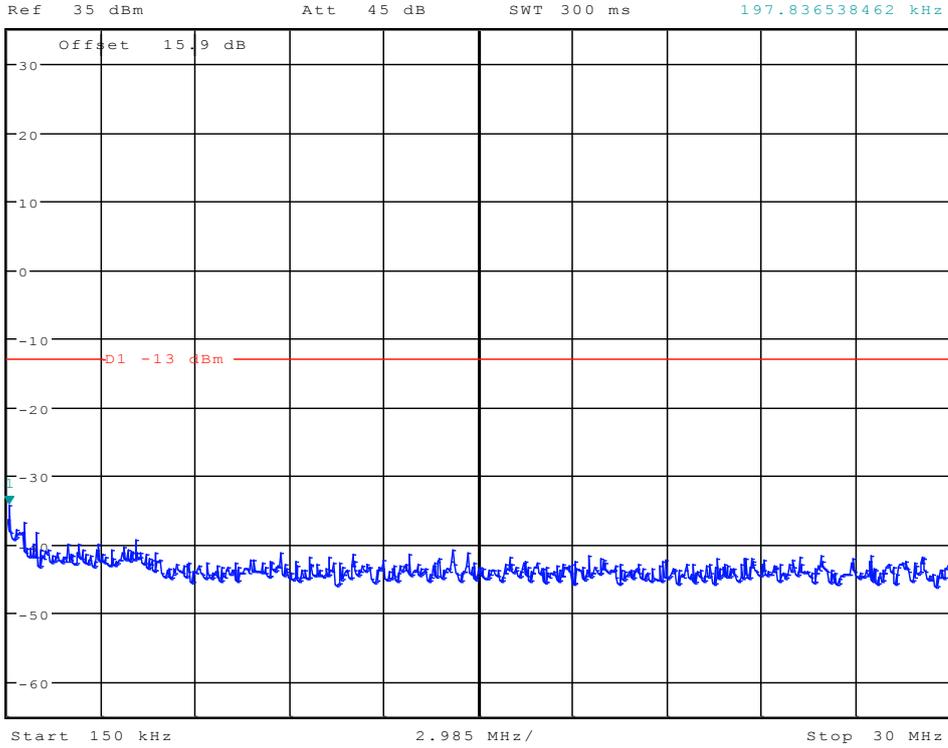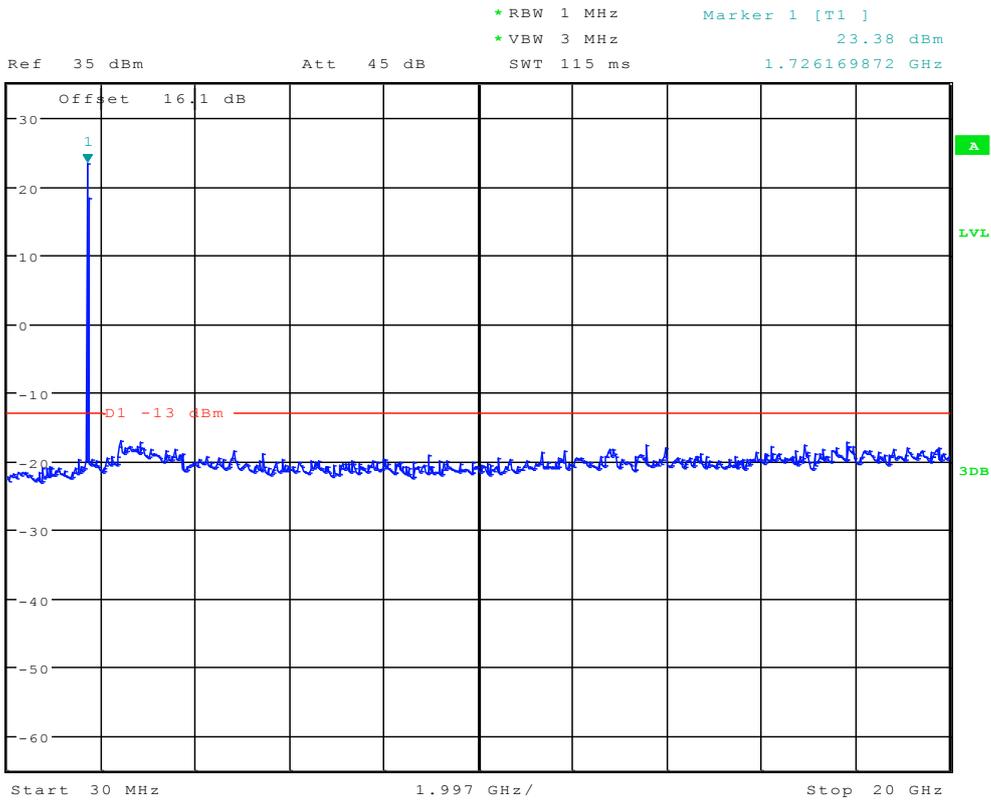
Date: 14.APR.2012 00:58:02

```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  3 MHz                22.99 dBm
        Ref   35 dBm        Att  45 dB    SWT  115 ms    1.726169872 GHz

        Offset   16.1 dB
        30
     1
        20

        10

         0

       -10
        D1  -13 dBm
       -20

       -30

       -40

       -50

       -60

    Start  30 MHz              1.997 GHz/            Stop  20 GHz
```

1 PK
MAXH

A

LVL

3DB

Date: 14.APR.2012 00:58:28

Modulation：8PSK


```
                                          * RBW  1 kHz        Marker 1 [T1 ]
                                          * VBW  10 kHz                 -37.74 dBm
         Ref   35 dBm          Att   45 dB  SWT  145 ms      9.451923077 kHz
```
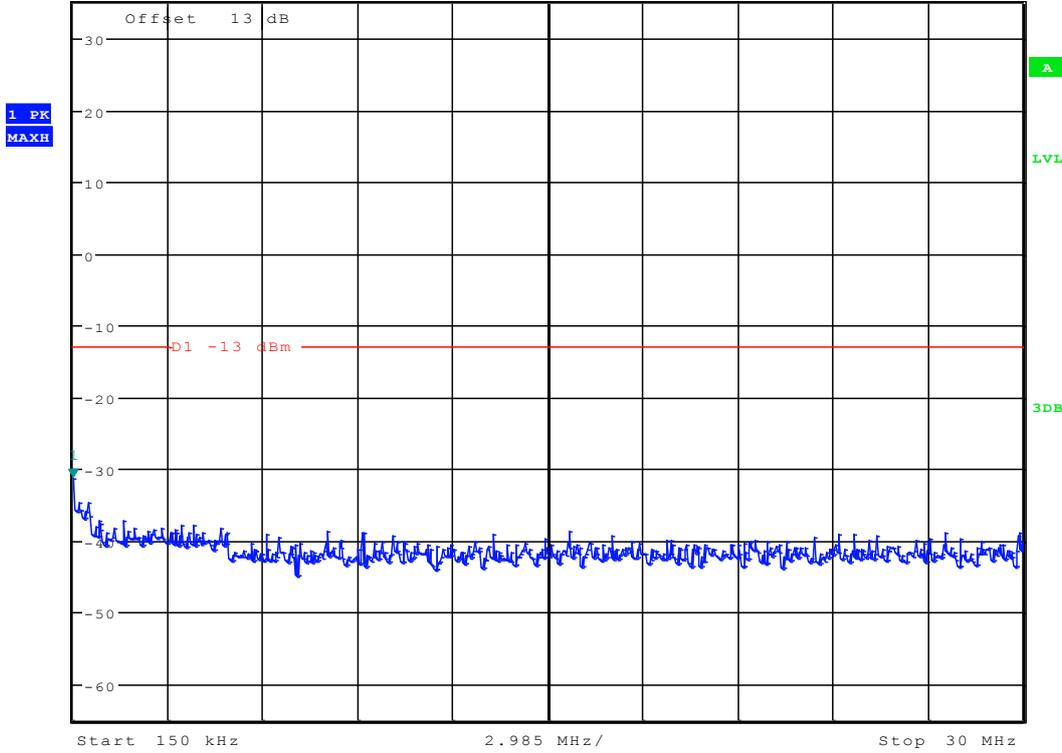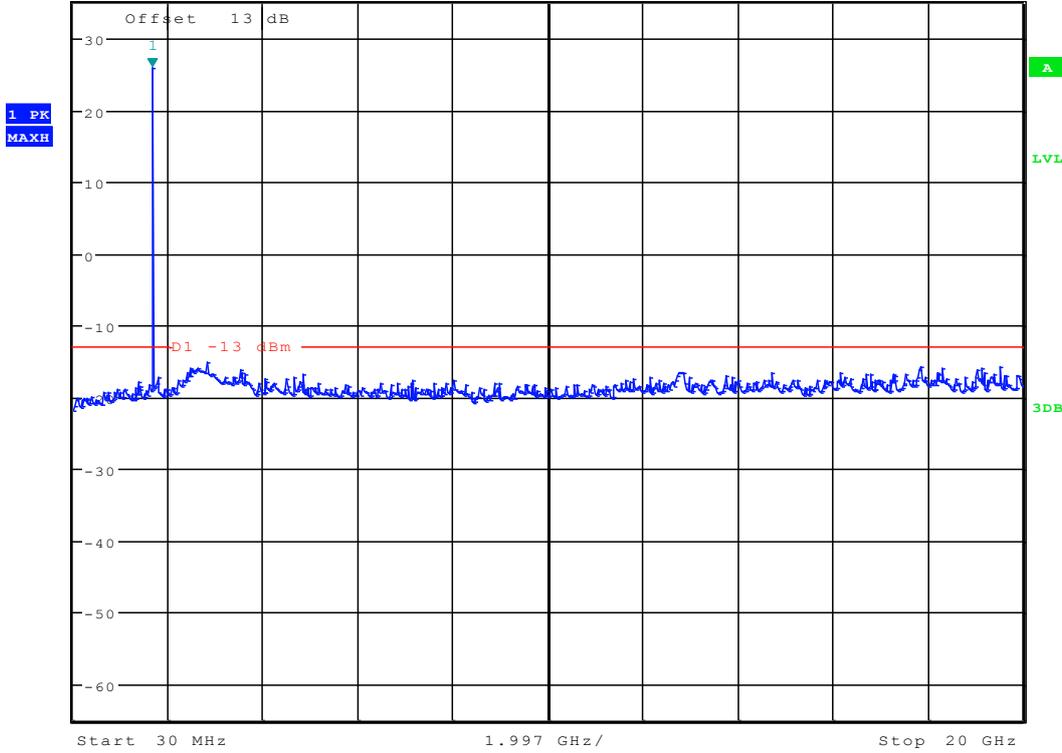
Date: 14.APR.2012 00:58:53

Date: 14.APR.2012 00:59:19

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Date: 14.APR.2012 00:59:45

3   For Band 4

NOTE1: QPSK output power higher than 16QAM, so only test the QPSK mode.
NOTE2: All relevant operation modes have been tested, and the 1RB&full RB case data is included in this report.

3.1   Test Mode=TM4

3.1.1   Channel Bandwidth = Lowest (5 MHz)

3.1.1.1   Channel = B

3.1.1.1.1 QPSK/1RBs /RB #0
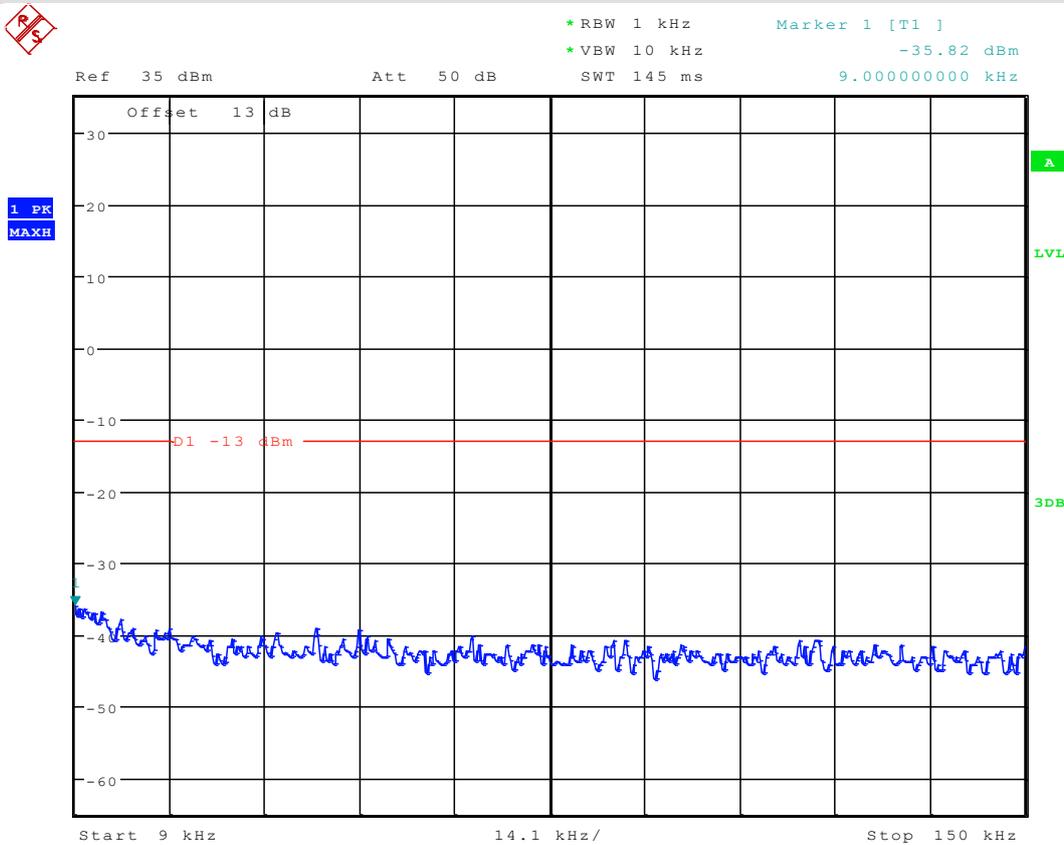
Date: 19.APR.2012 11:50:43

Offset 13 dB

*RBW 10 kHz
*VBW 30 kHz
SWT 300 ms

Marker 1 [T1]
-31.22 dBm
150.000000000 kHz

Ref 35 dBm   Att 50 dB

1 PK
MAXH

A

LVL

D1 -13 dBm

3DB

Start 150 kHz   2.985 MHz/   Stop 30 MHz

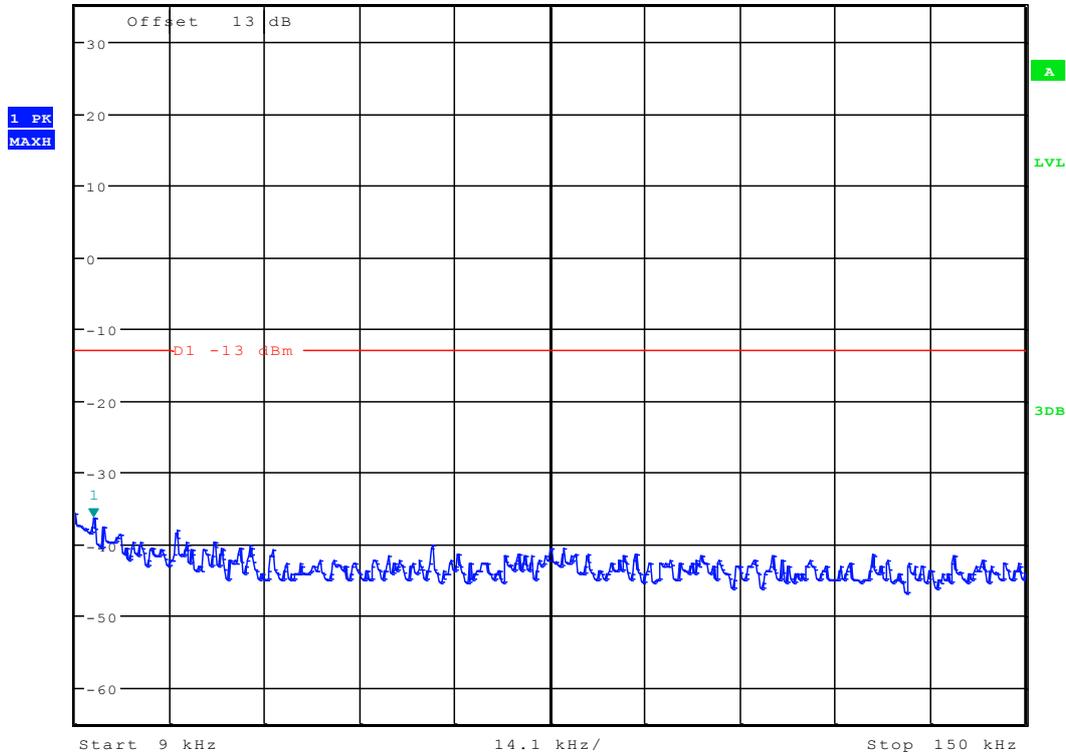Date: 19.APR.2012 11:51:44

Date: 19.APR.2012 11:52:53

3.1.1.1.2 QPSK/1RBs /RB #max

```
                              * RBW  1 kHz        Marker 1 [T1 ]
                              * VBW  10 kHz                -36.28 dBm
     Ref   35 dBm        Att   50 dB     SWT  145 ms       11.711538462 kHz
```
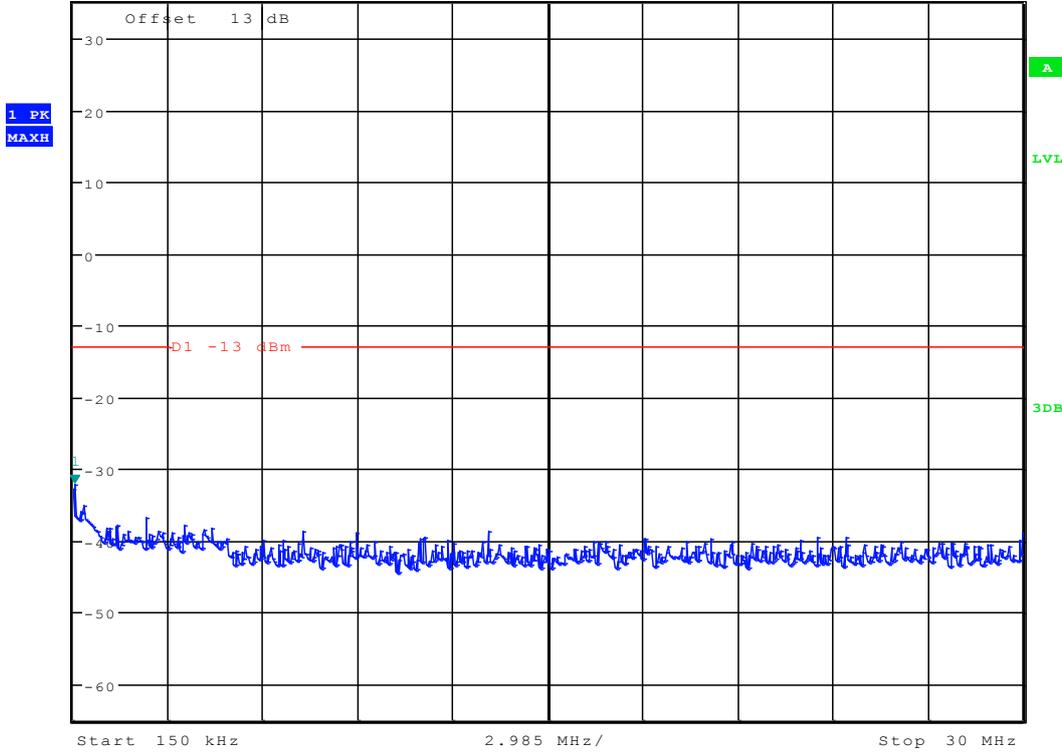


```
Start  9 kHz            14.1 kHz/              Stop  150 kHz
```

Date: 19.APR.2012 11:51:03

```
                                    * RBW  10 kHz      Marker 1 [T1 ]
                                    * VBW  30 kHz              -32.06 dBm
           Ref   35 dBm       Att  50 dB   SWT  300 ms    197.836538462 kHz

           Offset   13 dB
      -30                                                              A

1 PK
MAXH  -20                                                              LVL

      -10

       0

      -10   D1 -13 dBm

      -20                                                              3DB

      -30

      -40

      -50

      -60

           Start  150 kHz       2.985 MHz/          Stop  30 MHz
```
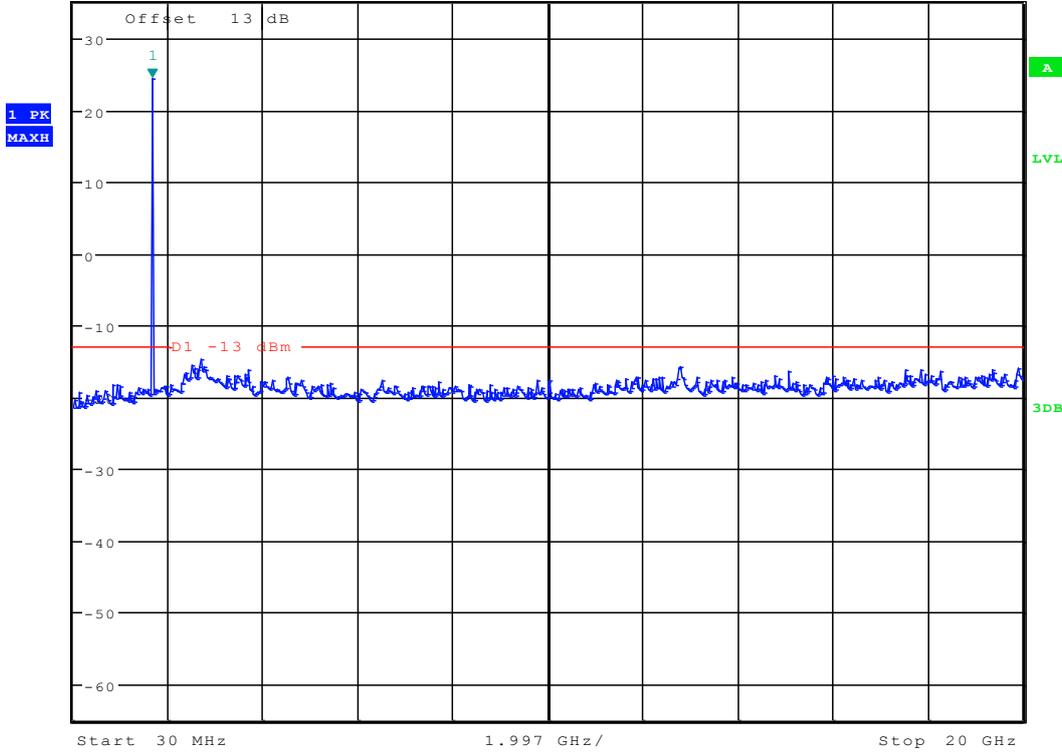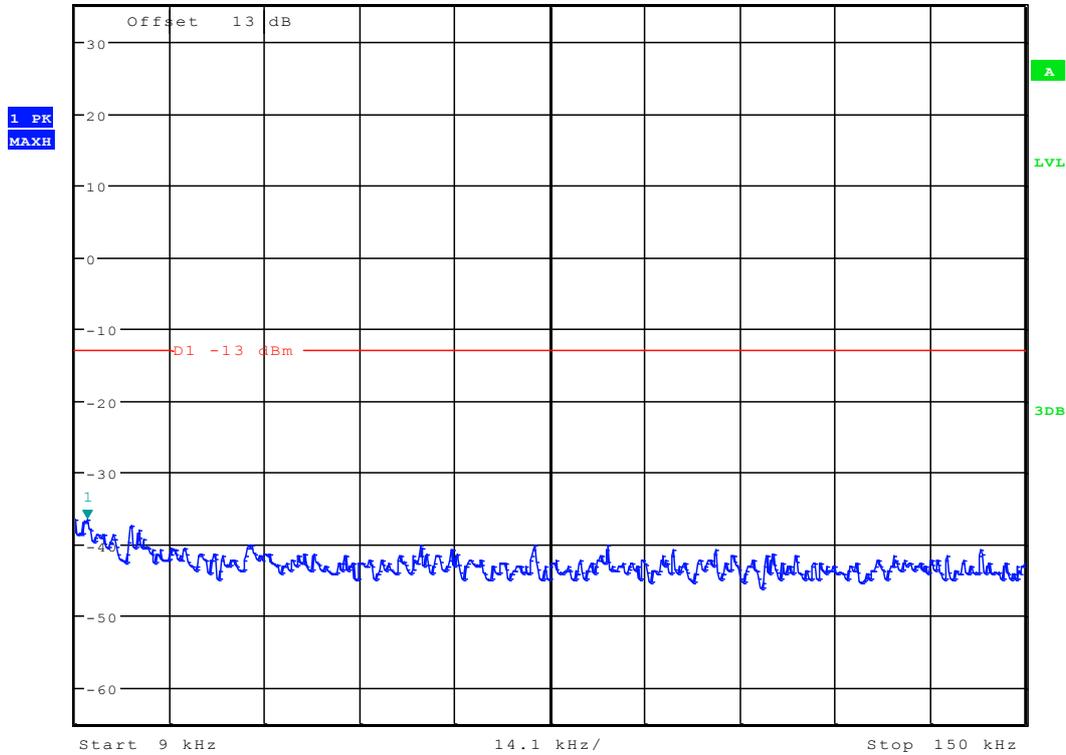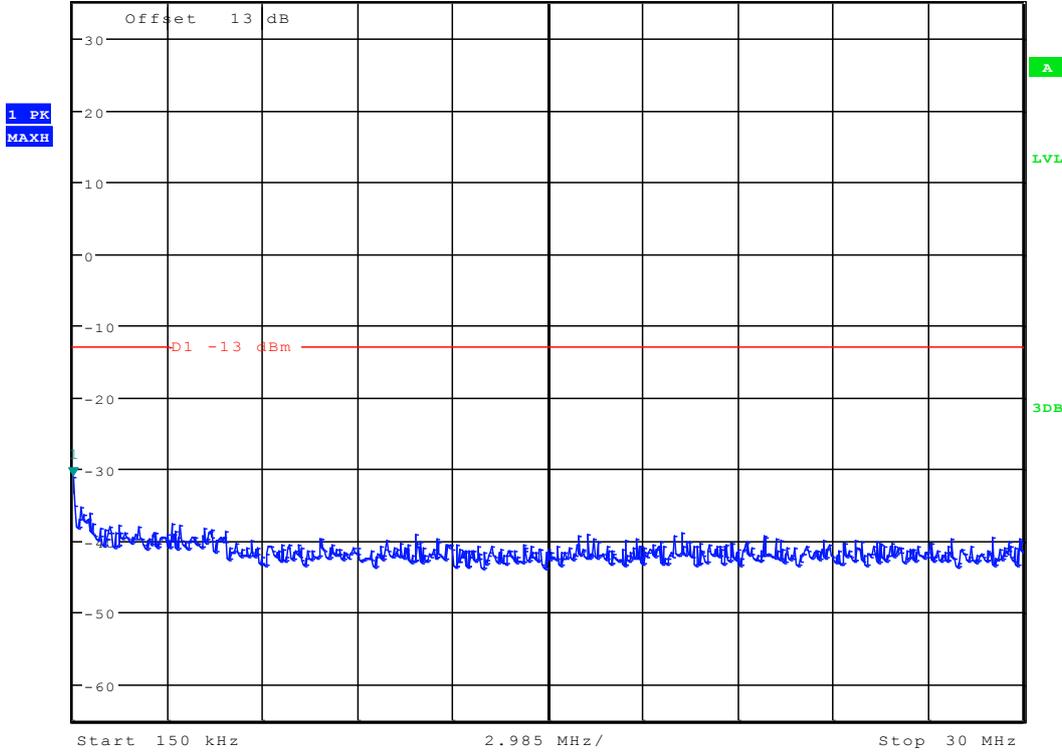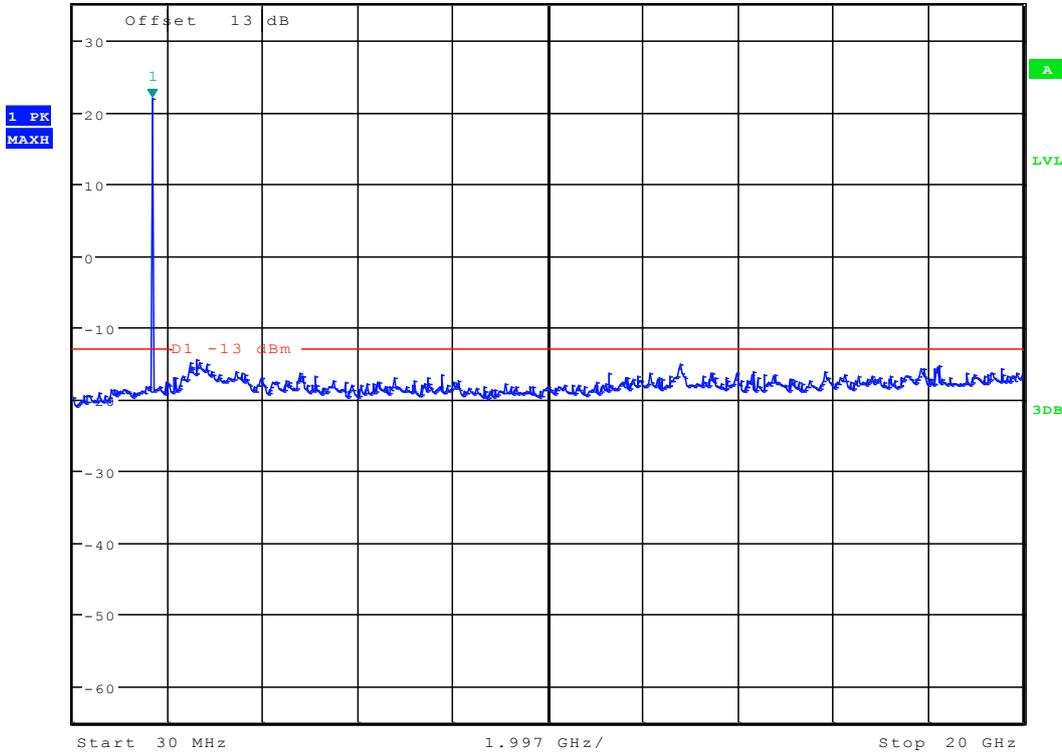
Date: 19.APR.2012 11:51:27

Date: 19.APR.2012 11:53:07

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3.1.1.1.3 QPSK/full RBs


```
* RBW  1 kHz          Marker 1 [T1 ]
* VBW  10 kHz                -36.57 dBm
Ref  35 dBm        Att  50 dB    SWT 145 ms    10.807692308 kHz

Offset  13 dB

  -30
1 PK
MAXH  -20
  -10
  -0
  --10
D1 -13 dBm
  --20
  --30
1
  --40
  --50
  --60

Start  9 kHz        14.1 kHz/        Stop  150 kHz
```

Date: 19.APR.2012 11:50:15

Date: 19.APR.2012 11:52:06

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```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  3 MHz              21.88 dBm
      Ref   35 dBm        Att  50 dB    SWT  115 ms    1.694166667 GHz
```
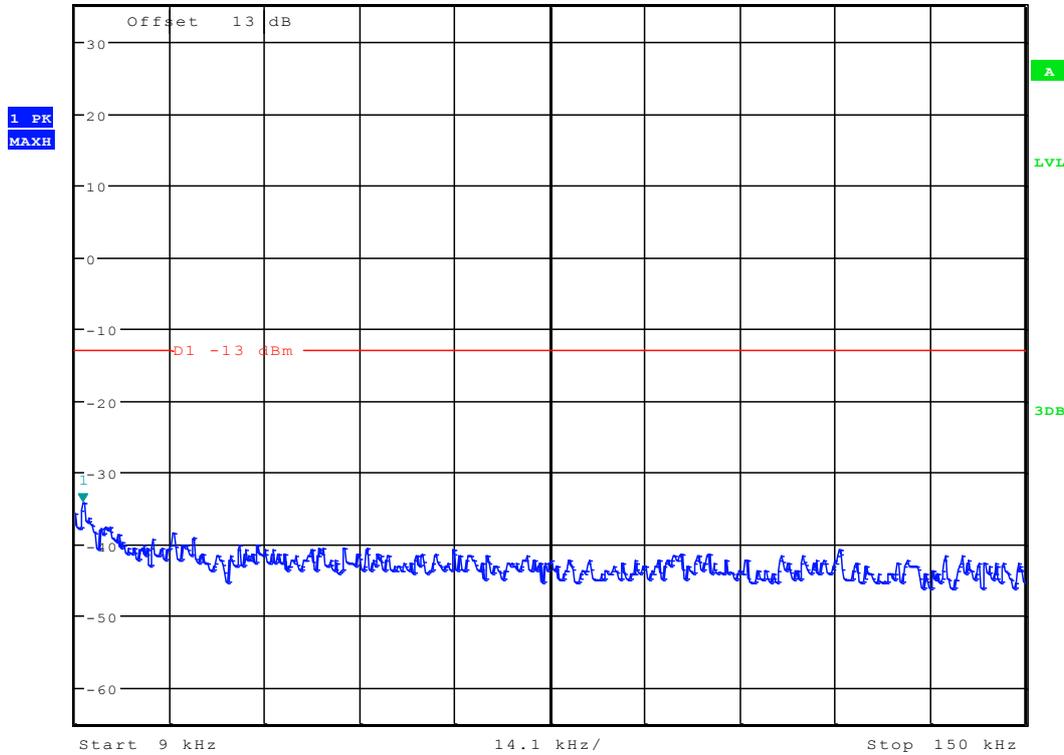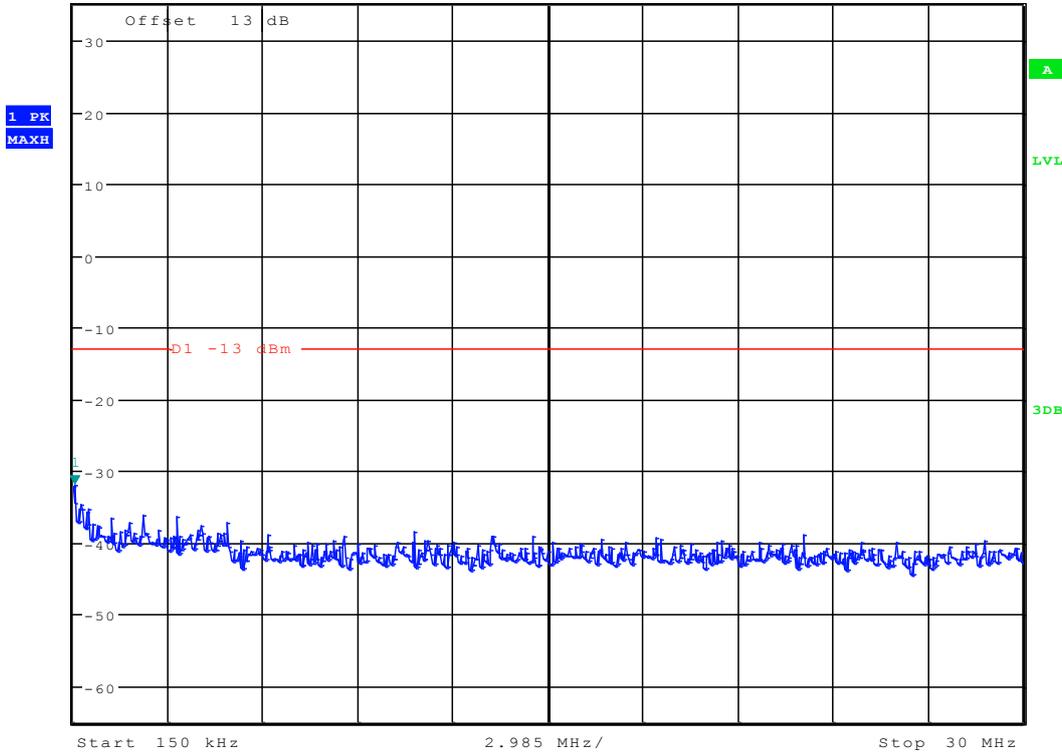


```
Date: 19.APR.2012  11:52:39
```

3.1.1.2 Channel = M

3.1.1.2.1 QPSK/1RBs /RB #0

```
                                        * RBW  1 kHz        Marker 1 [T1 ]
                                        * VBW  10 kHz                -34.17 dBm
        Ref   35 dBm          Att   50 dB     SWT  145 ms    10.129807692 kHz

            Offset   13 dB
          30                                                                  A

   1 PK
   MAXH    20                                                               LVL

          10

           0

         -10
          D1 -13 dBm
         -20                                                                3DB

         -30
        1

         -40

         -50

         -60

        Start  9 kHz            14.1 kHz/            Stop  150 kHz
```
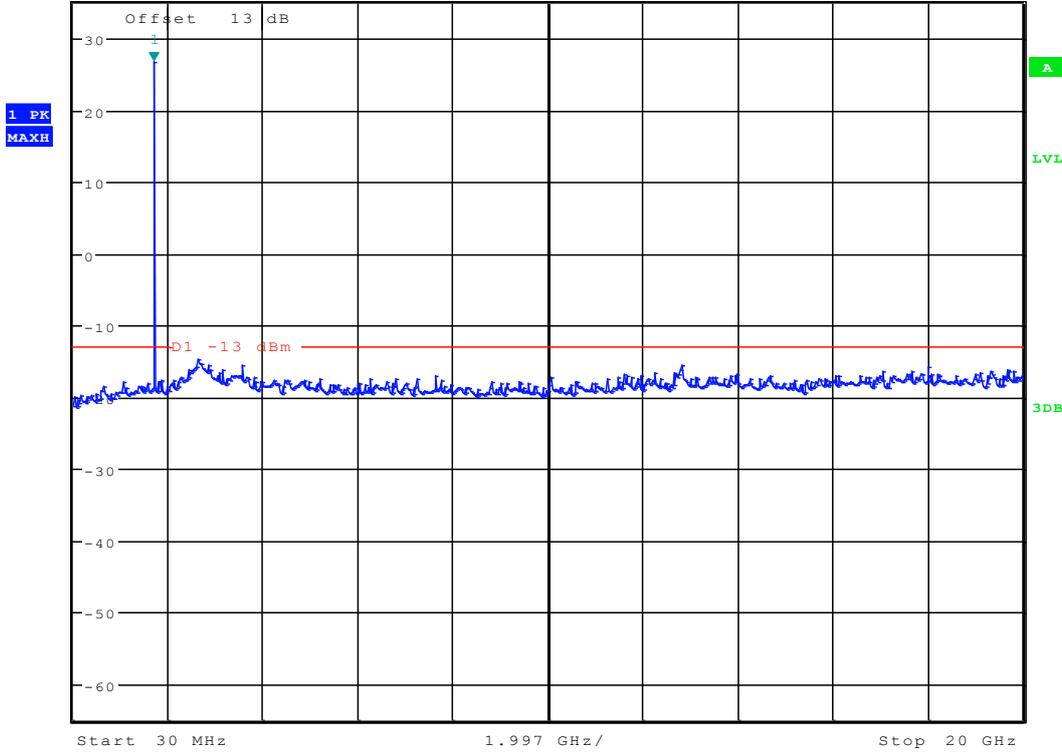
Date: 19.APR.2012 11:47:08

Date: 19.APR.2012 11:46:03

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```
                                    * RBW 1 MHz        Marker 1 [T1 ]
                                    * VBW 3 MHz                26.67 dBm
         Ref   35 dBm        Att  50 dB    SWT 115 ms   1.726169872 GHz
```
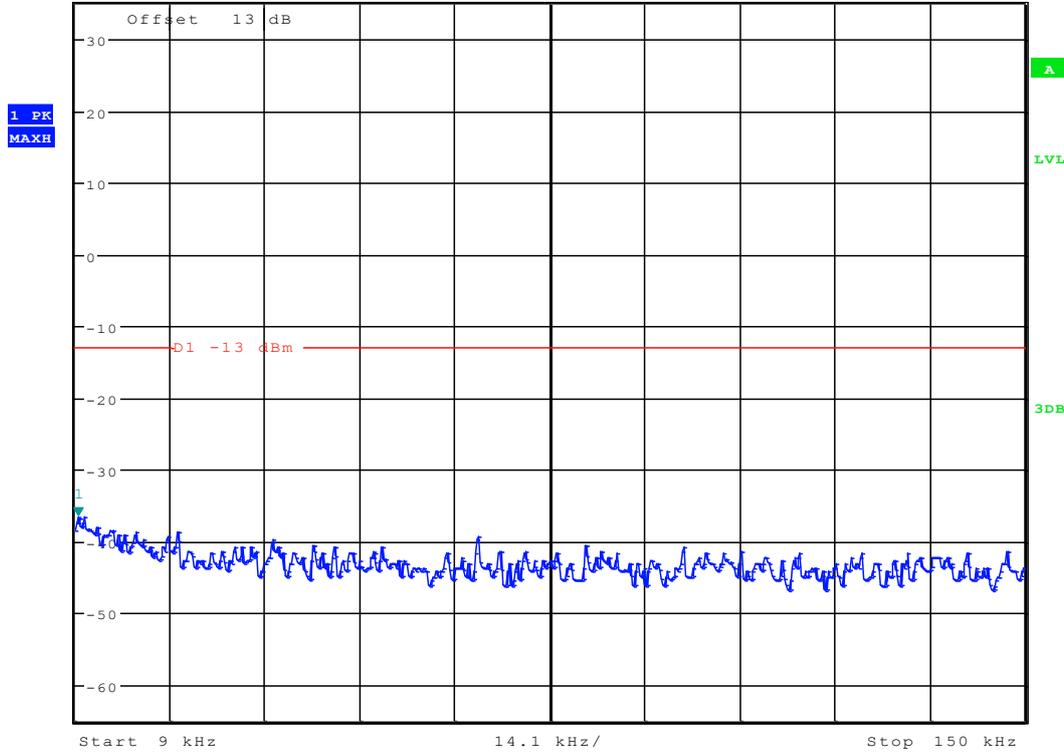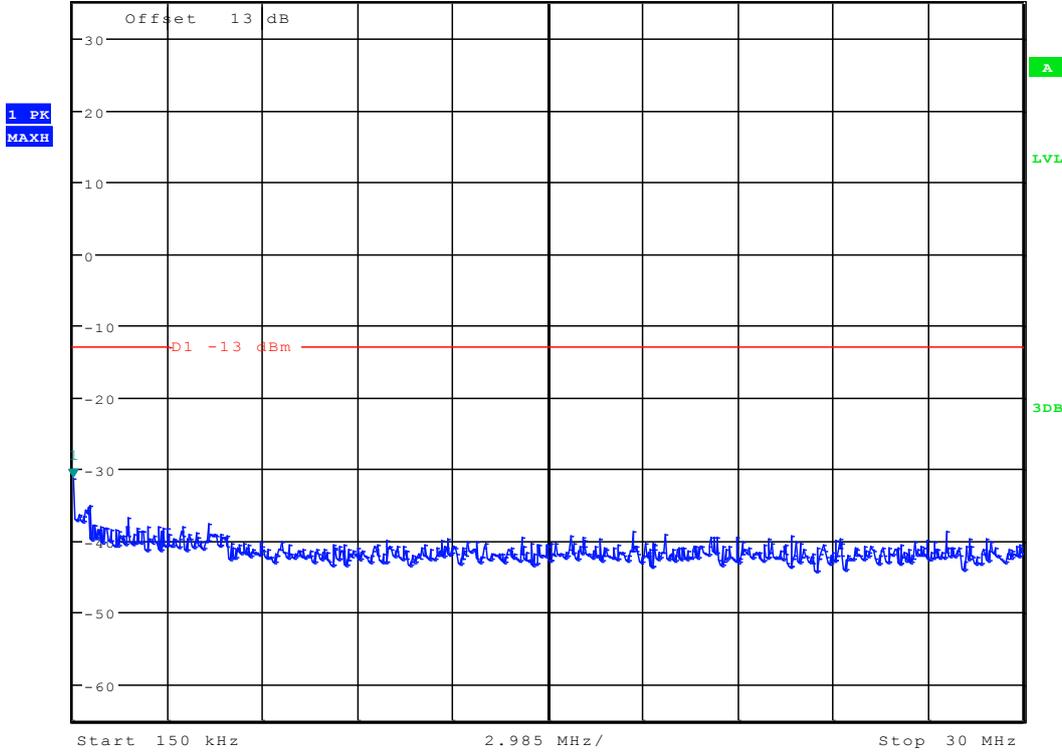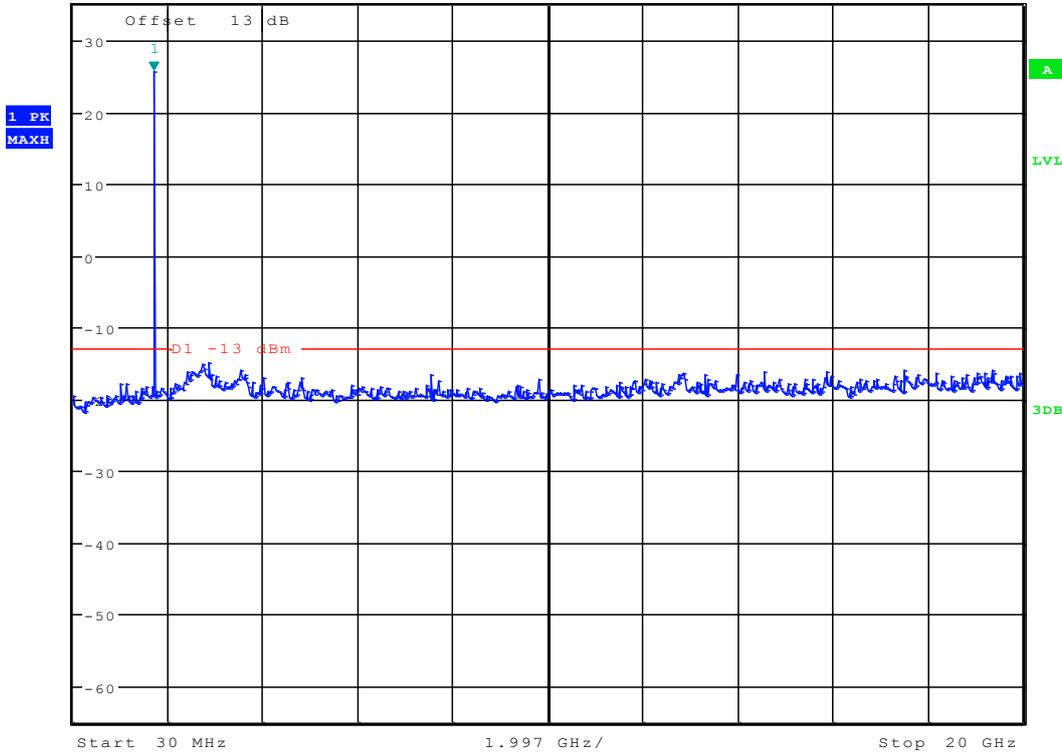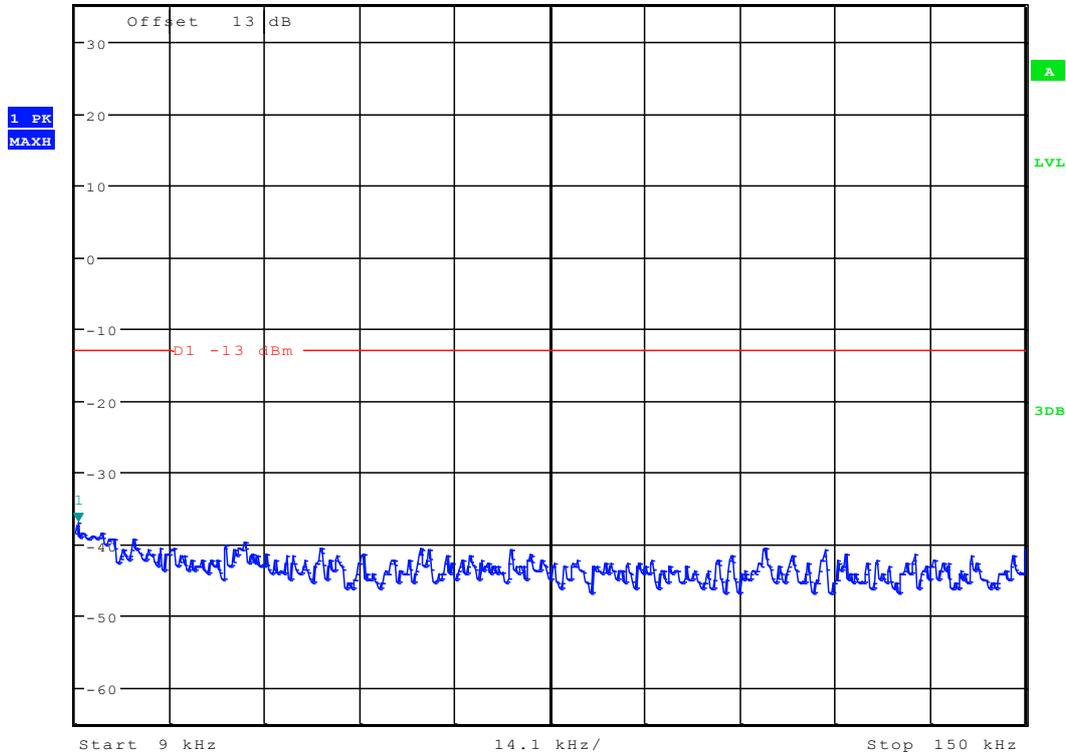


```
         Start  30 MHz              1.997 GHz/              Stop  20 GHz
```

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3.1.1.2.2 QPSK/1RBs /RB #max

```
                                    * RBW  1 kHz        Marker 1 [T1 ]
                                    * VBW 10 kHz                   -36.57 dBm
    Ref   35 dBm         Att   50 dB     SWT 145 ms        9.451923077 kHz

         Offset   13 dB
      30                                                                        A

1 PK  20
MAXH
      10                                                                        LVL

       0

     -10
        D1 -13 dBm

     -20                                                                        3DB

     -30

     -40

     -50

     -60

    Start  9 kHz              14.1 kHz/              Stop  150 kHz
```
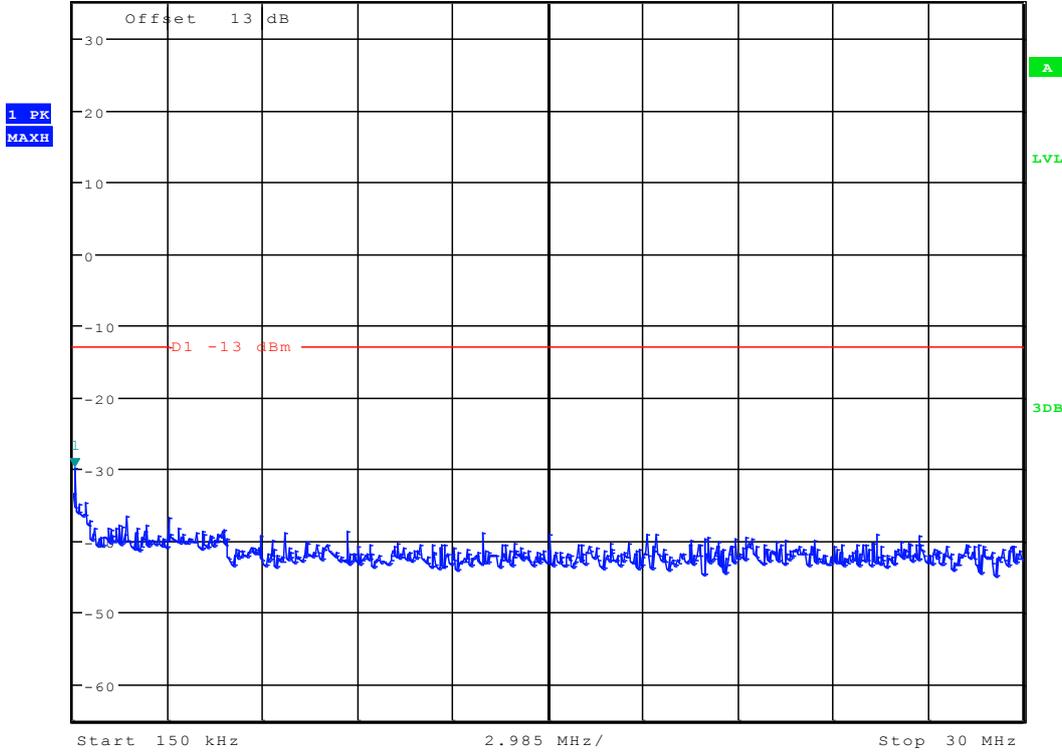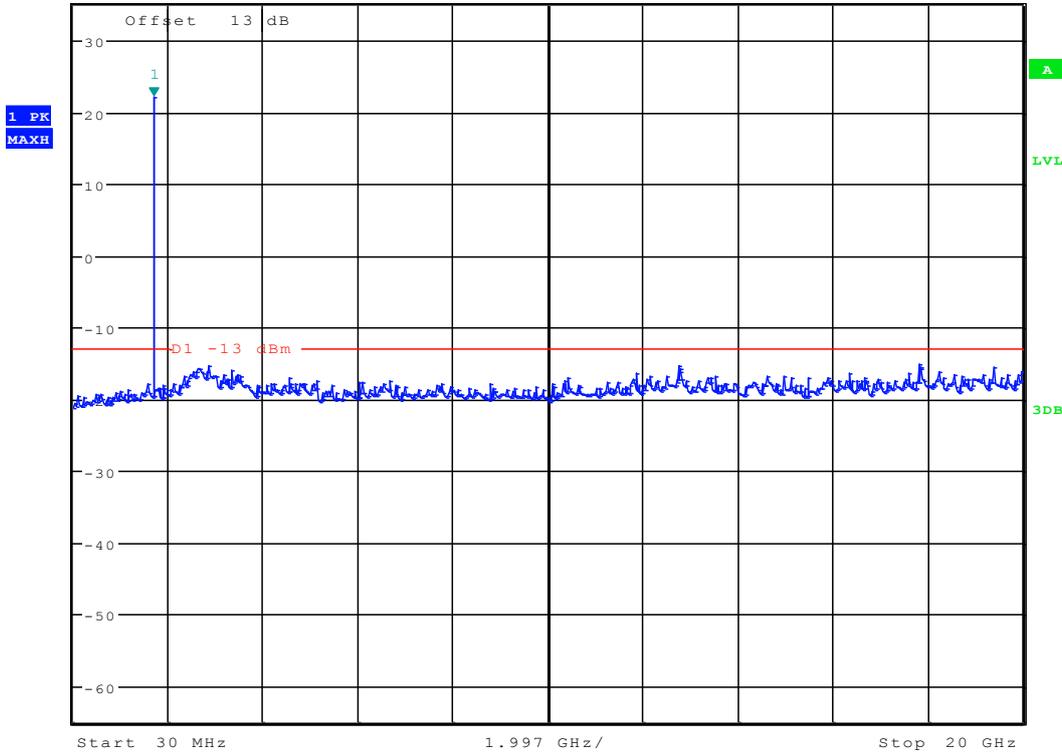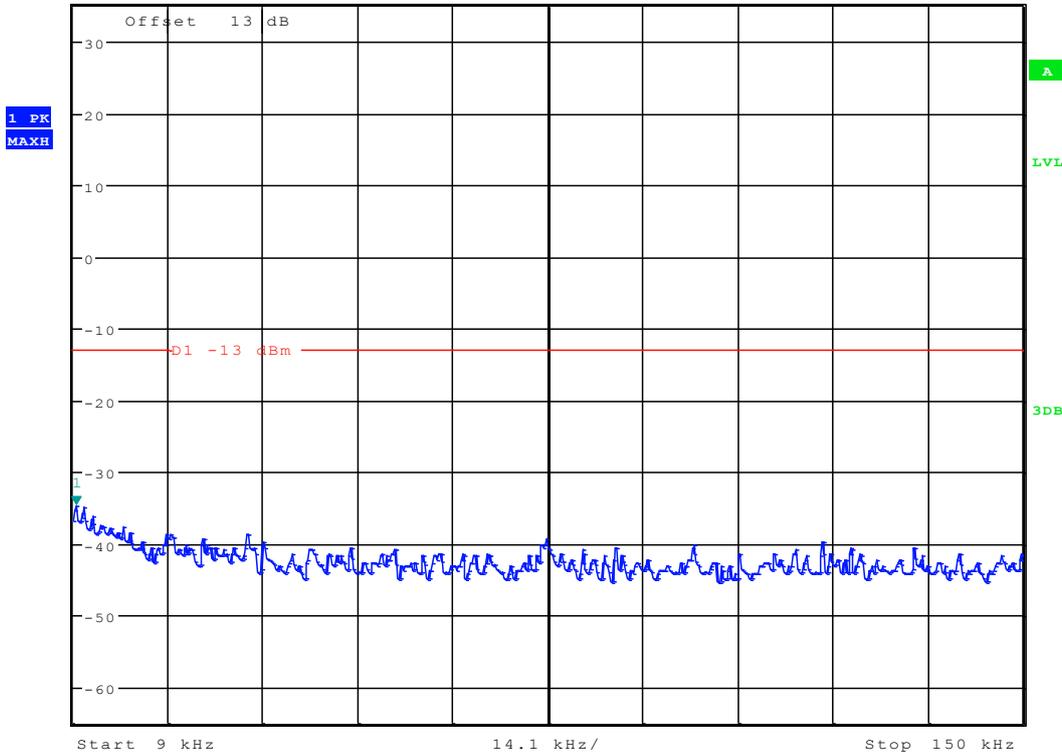
Date: 19.APR.2012 11:46:49

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Date: 19.APR.2012 11:46:21

Offset 13 dB

* RBW 1 MHz	Marker 1 [T1]
* VBW 3 MHz	25.57 dBm
Ref 35 dBm Att 50 dB SWT 115 ms	1.726169872 GHz

1 PK
MAXH

A

LVL

D1 -13 dBm

3DB

Start 30 MHz   1.997 GHz/   Stop 20 GHz

Date: 19.APR.2012 11:43:49

3.1.1.2.3 QPSK/full RBs

```
                                    *RBW  1 kHz        Marker 1 [T1 ]
                                    *VBW 10 kHz                -36.98 dBm
     Ref   35 dBm          Att   50 dB    SWT 145 ms       9.451923077 kHz
```
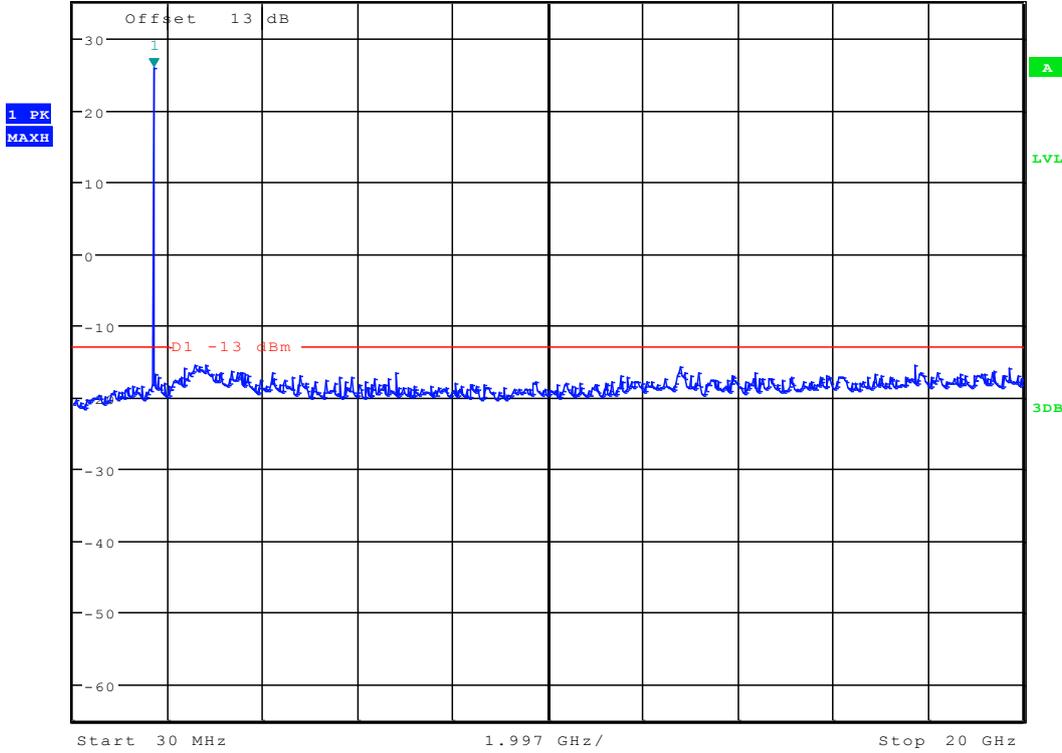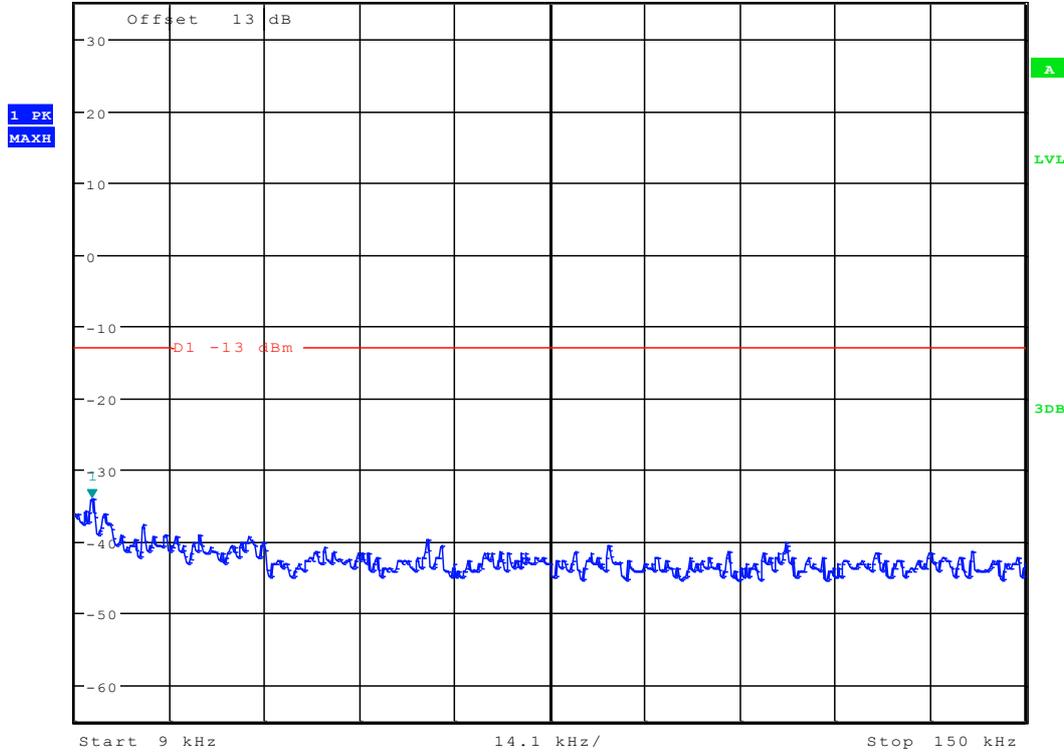


```
Start  9 kHz            14.1 kHz/            Stop  150 kHz
```

Date: 19.APR.2012 11:47:26

Date: 19.APR.2012 11:45:41

Date: 19.APR.2012 11:45:10

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3.1.1.3 Channel = T

3.1.1.3.1 QPSK/1RBs /RB #0

Date: 19.APR.2012 11:39:45

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```
                              * RBW  10 kHz      Marker 1 [T1 ]
                              * VBW  30 kHz               -30.90 dBm
  Ref   35 dBm      Att   50 dB    SWT  300 ms    150.000000000 kHz
```

Start 150 kHz   2.985 MHz/   Stop 30 MHz
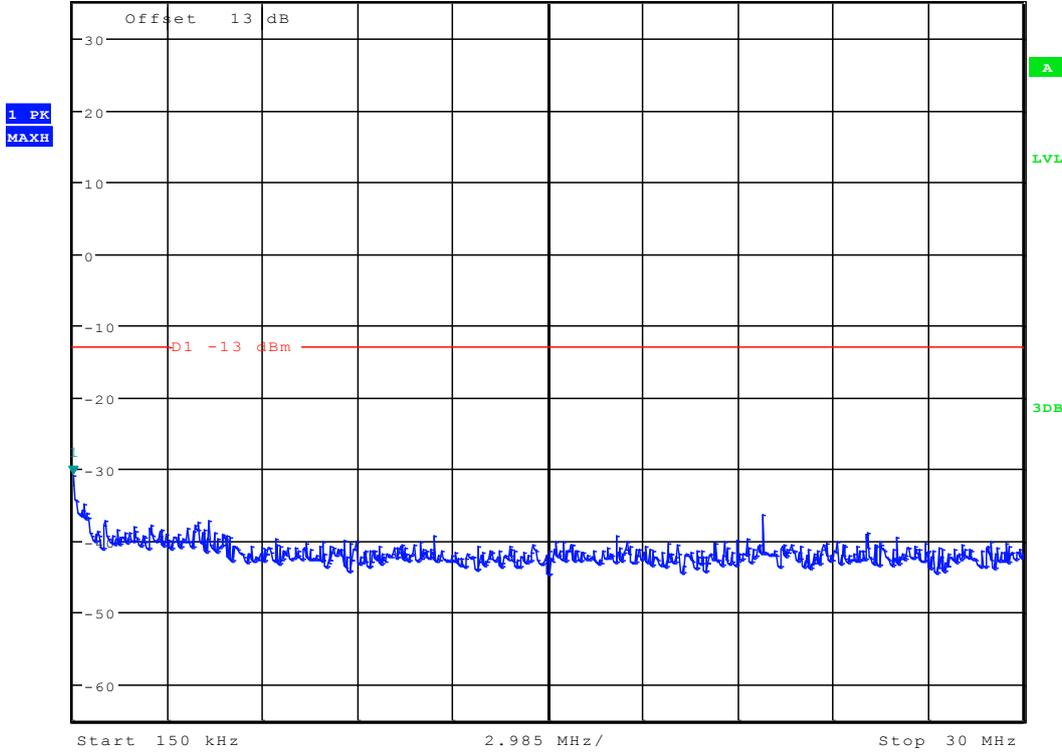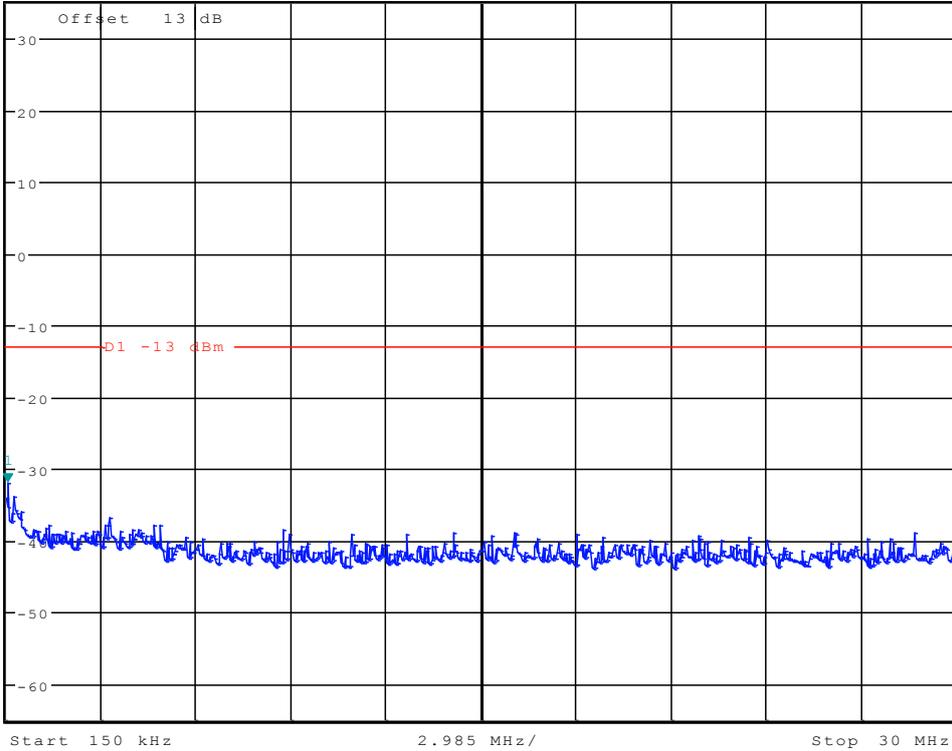
Date: 19.APR.2012 11:41:08
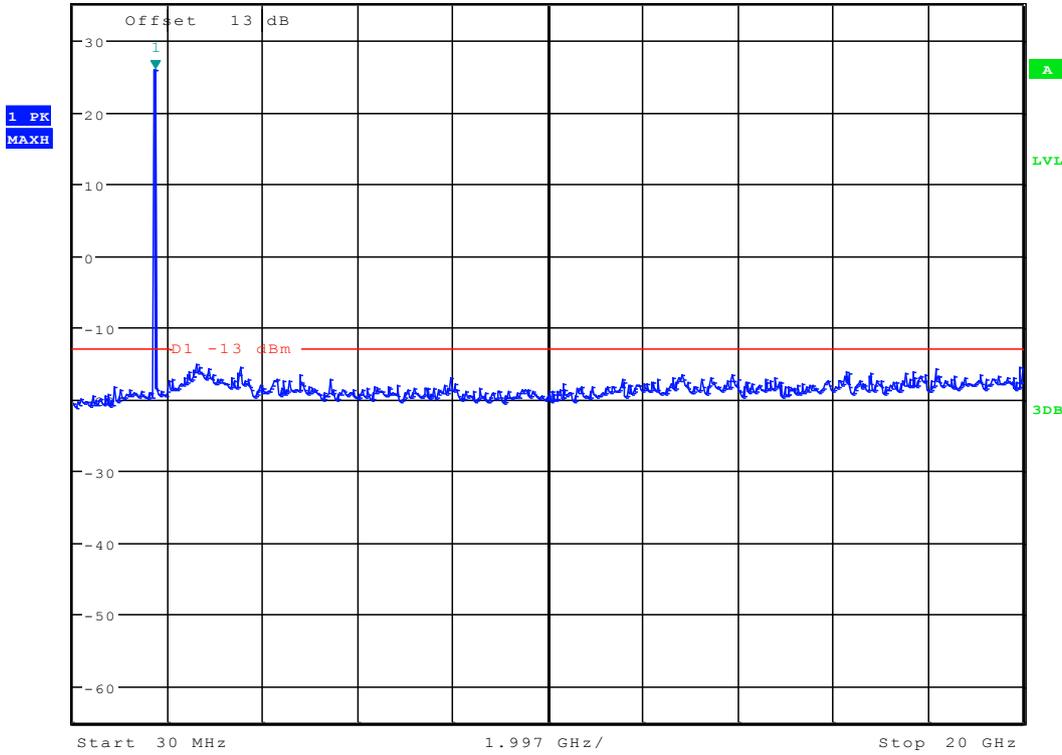
```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  3 MHz                25.95 dBm
      Ref   35 dBm      Att  50 dB    SWT  115 ms      1.726169872 GHz

       Offset   13 dB
   -30
      1                                                                    A
1 PK
MAXH   -20

   -10                                                                    LVL

   -0

  --10
        D1 -13 dBm
                                                                          3DB

  --30

  --40

  --50

  --60

   Start  30 MHz          1.997 GHz/              Stop  20 GHz
```
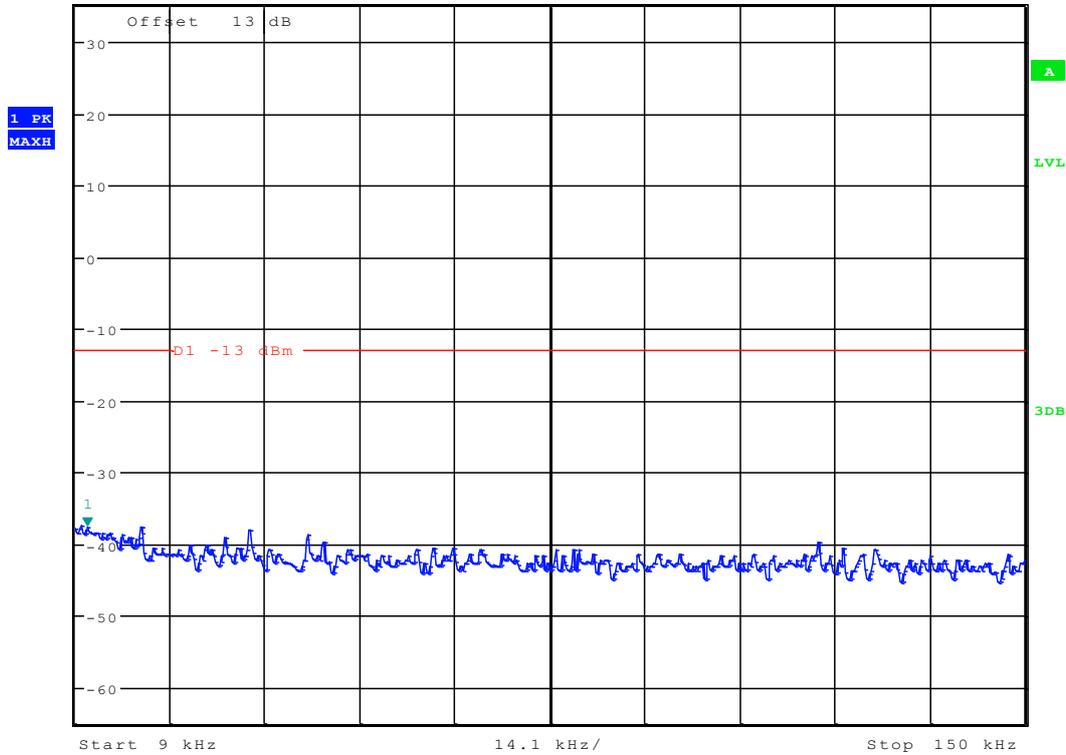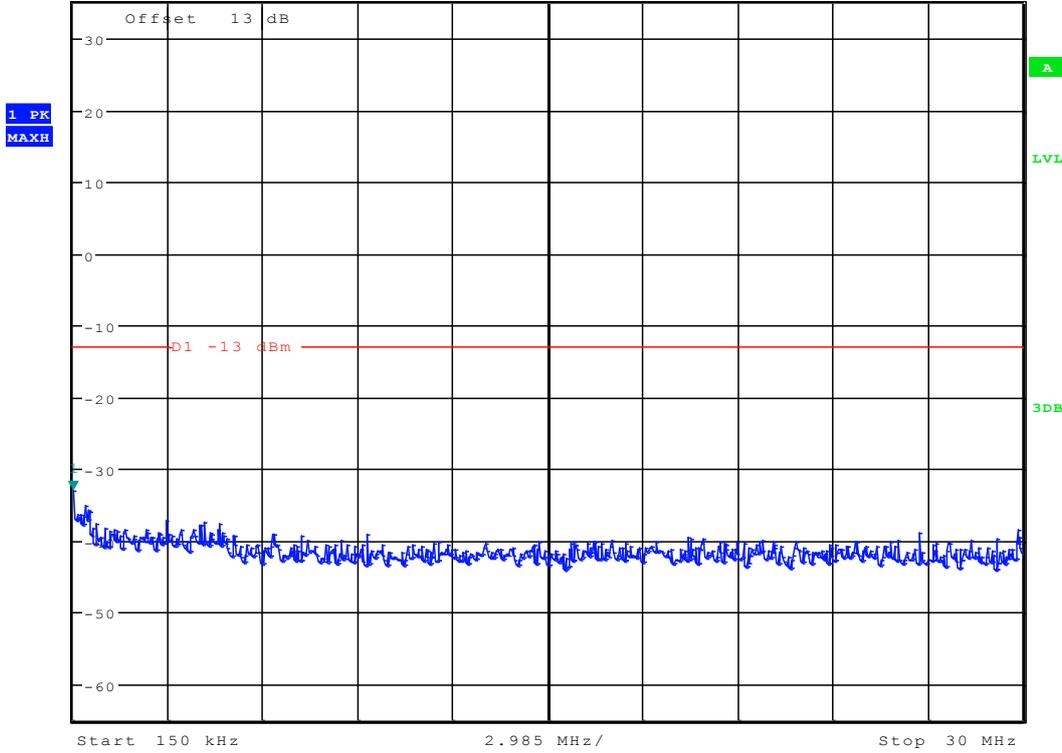
Date: 19.APR.2012 11:42:12

3.1.1.3.2 QPSK/1RBs /RB #max

```
R                                    *RBW  1 kHz        Marker 1 [T1 ]
S                                    *VBW 10 kHz                  -34.02 dBm
          Ref   35 dBm         Att  50 dB      SWT 145 ms       11.485576923 kHz

              Offset  13 dB                                                    A
           30
 1 PK
 MAXH      20                                                                 LVL

           10

            0

          -10   D1 -13 dBm

          -20                                                                 3DB

          -30

          -40

          -50

          -60

          Start 9 kHz              14.1 kHz/              Stop  150 kHz
```
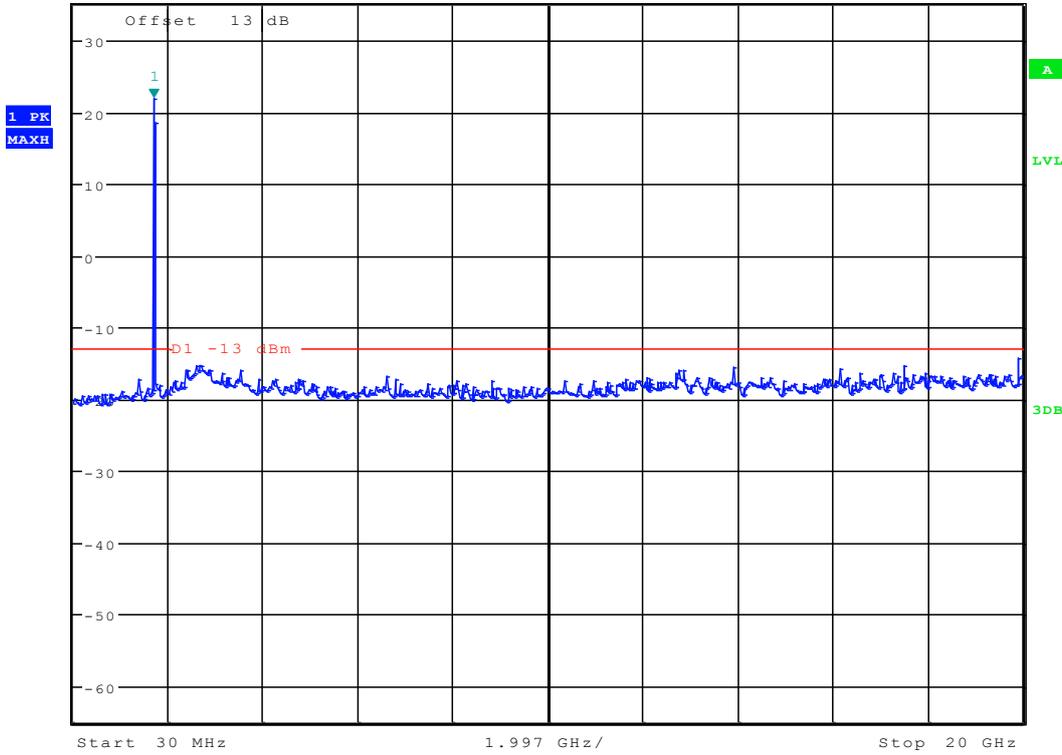
Date: 19.APR.2012 11:40:08

Date: 19.APR.2012 11:40:53

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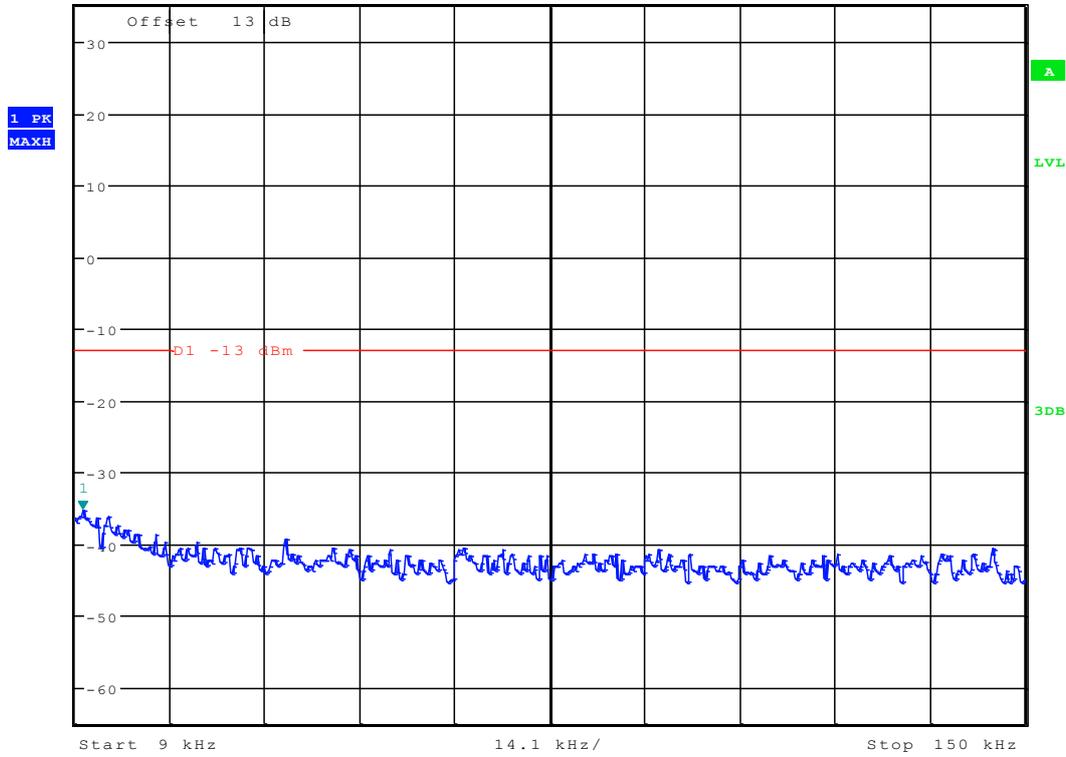
```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  3 MHz               25.92 dBm
        Ref   35 dBm        Att  50 dB    SWT  115 ms    1.758173077 GHz
```
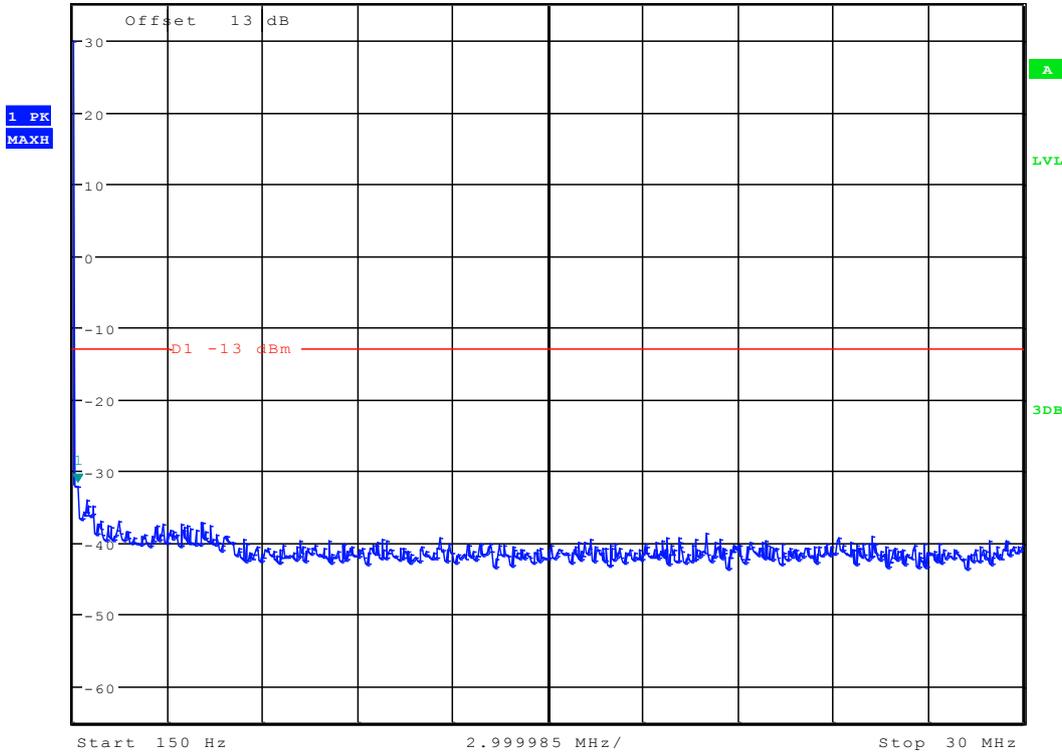


```
        Offset   13 dB
1 PK
MAXH

        D1 -13 dBm

        Start  30 MHz        1.997 GHz/        Stop  20 GHz
```

A
LVL
3DB

Date: 19.APR.2012 11:42:27

3.1.1.3.3 QPSK/full RBs


```
                                    * RBW  1 kHz      Marker 1 [T1 ]
                                    * VBW  10 kHz              -37.51 dBm
     Ref   35 dBm        Att  50 dB   SWT  145 ms     10.807692308 kHz
```
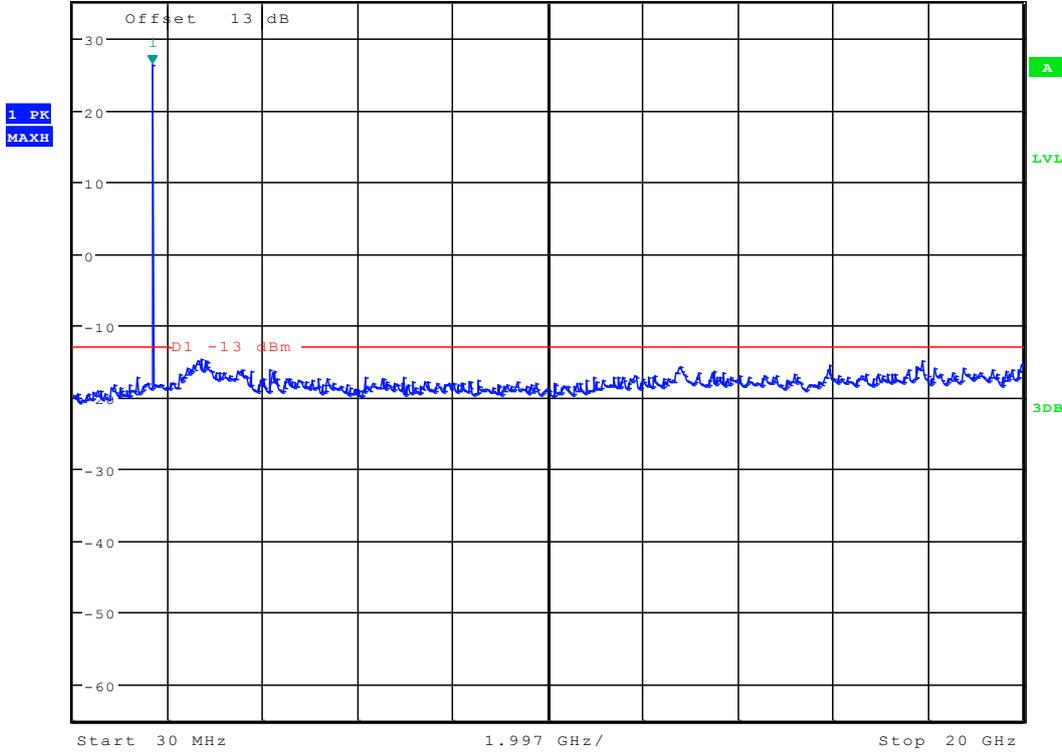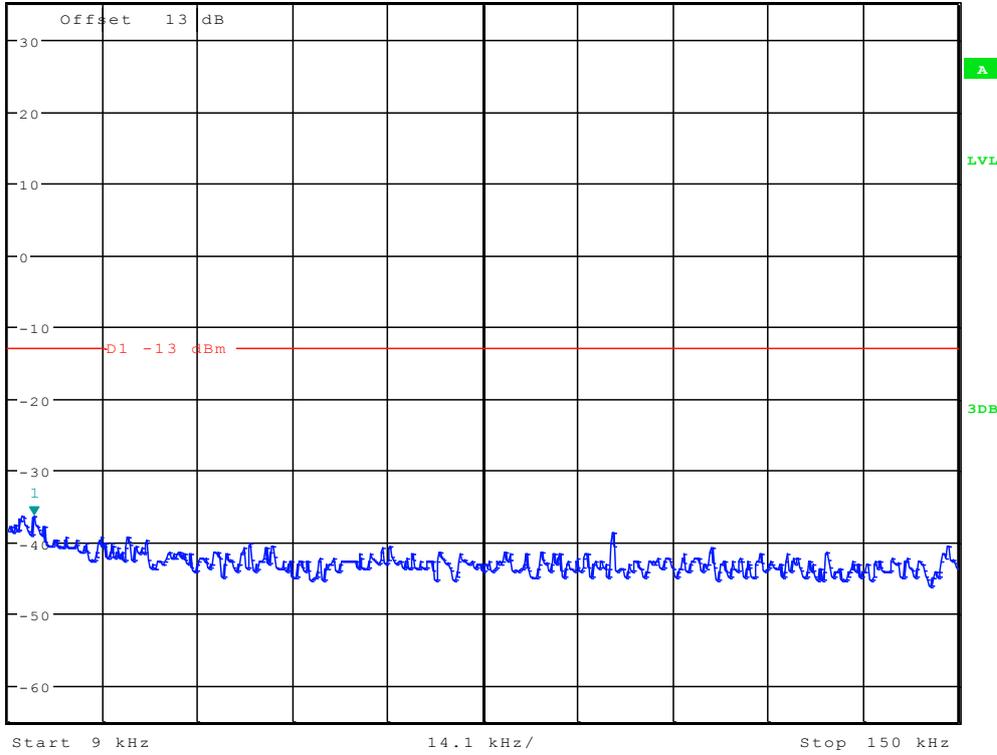
Date: 19.APR.2012 11:39:21

Date: 19.APR.2012 11:41:25

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```
                              * RBW  1 MHz        Marker 1 [T1 ]
                              * VBW  3 MHz               21.85 dBm
  Ref   35 dBm       Att  50 dB      SWT  115 ms    1.726169872 GHz
```

Date: 19.APR.2012 11:41:57

3.1.2 Channel Bandwidth = Highest (10 MHz)

3.1.2.1 Channel = B

3.1.2.1.1 QPSK/1RBs /RB #0

```
                                    * RBW  1 kHz        Marker 1 [T1 ]
                                    * VBW 10 kHz                -35.38 dBm
      Ref   35 dBm        Att  50 dB   SWT 145 ms        10.129807692 kHz

          Offset   13 dB
       -30
                                                                         A
1 PK  -20
MAXH
       10                                                                LVL

        0

      -10
          D1 -13 dBm
                                                                         3DB
      -20

      -30
     1

      -50

      -60

      Start  9 kHz           14.1 kHz/              Stop  150 kHz
```
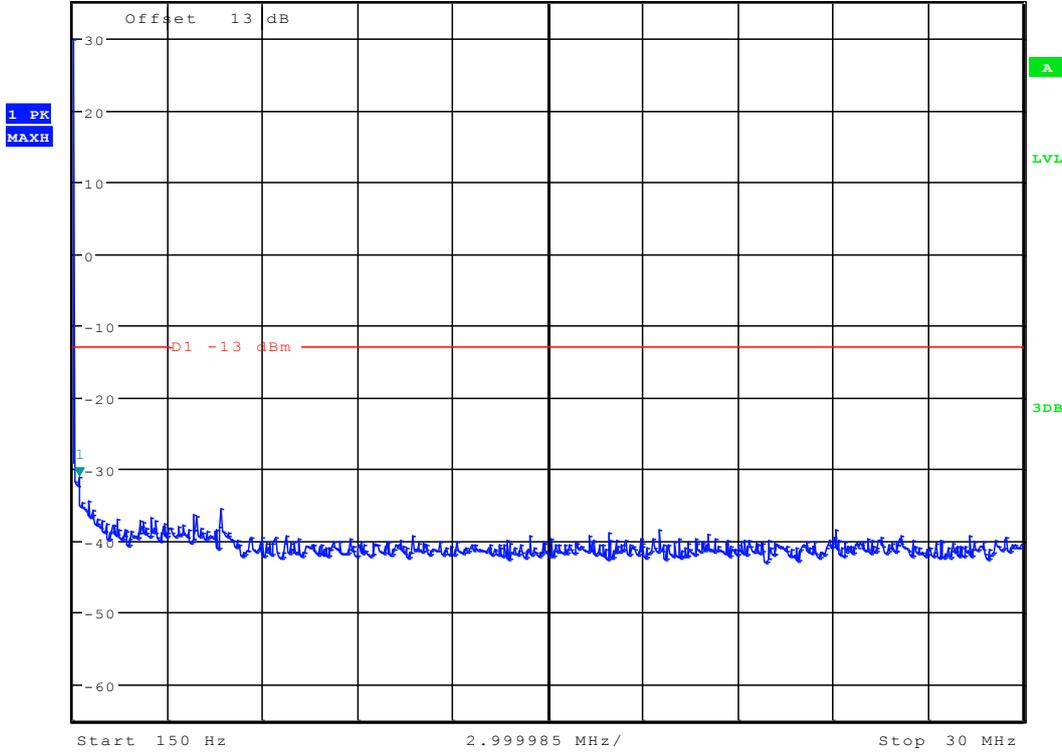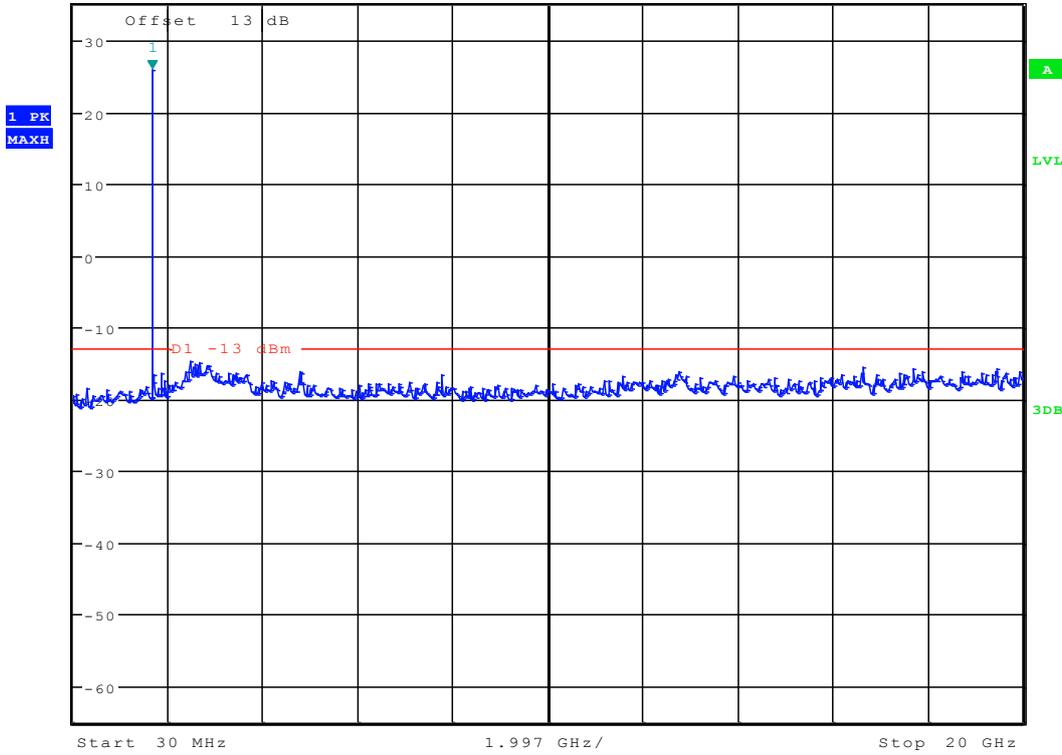
Date: 19.APR.2012 12:03:01

Date: 19.APR.2012 12:01:09

Date: 19.APR.2012 11:59:16

3.1.2.1.2 QPSK/1RBs /RB #max

```
                                        * RBW  1 kHz        Marker 1 [T1 ]
                                        * VBW 10 kHz                -36.28 dBm
       Ref  35 dBm          Att  50 dB   SWT 145 ms         12.841346154 kHz

           Offset  13 dB

1 PK
MAXH
```
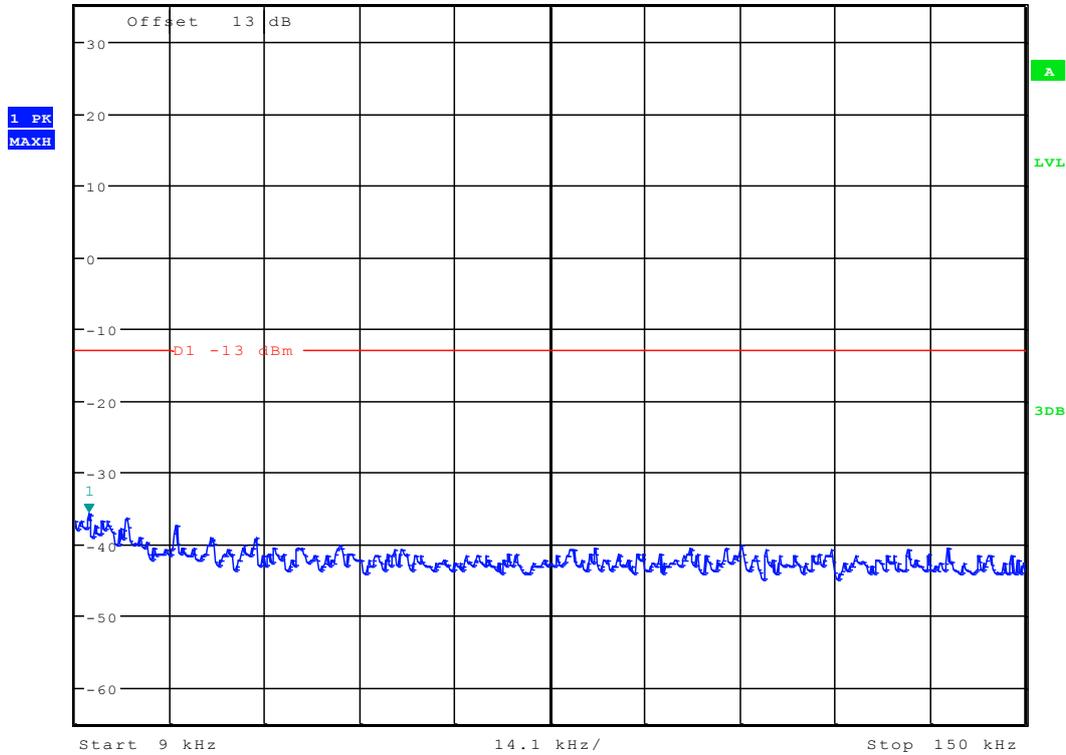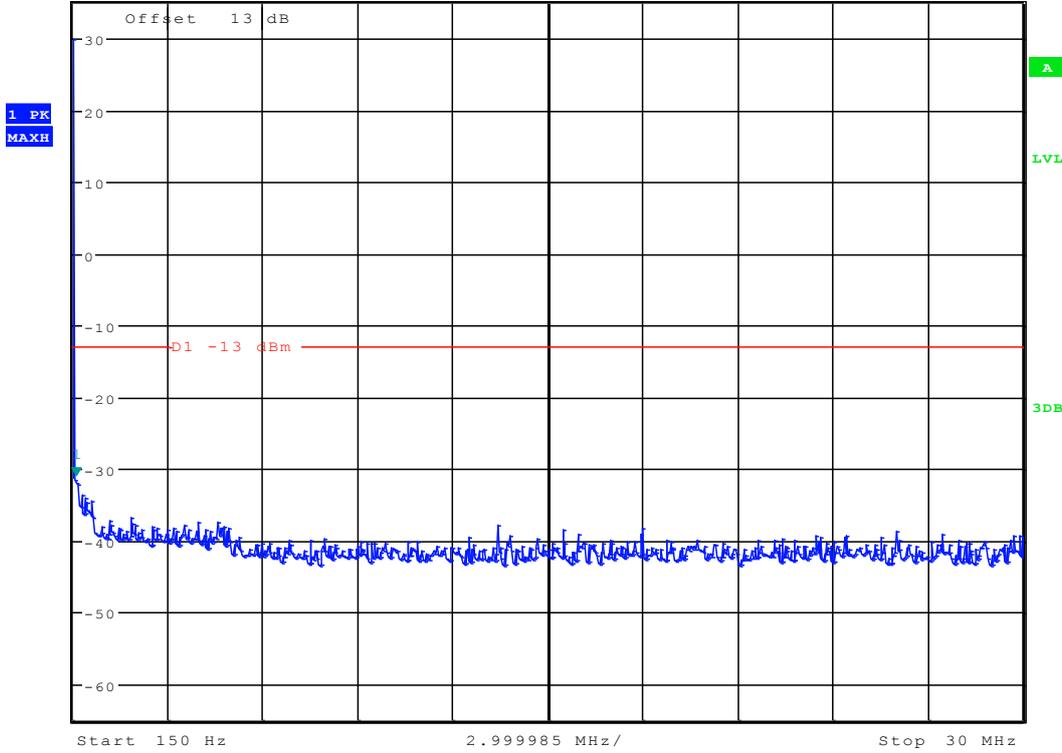
Start 9 kHz   14.1 kHz/   Stop 150 kHz

Date: 19.APR.2012 12:02:33

```
* RBW 10 kHz          Marker 1 [T1 ]
* VBW 30 kHz                  -31.11 dBm
Ref  35 dBm        Att  50 dB    SWT  300 ms    192.456730769 kHz

Offset  13 dB
```

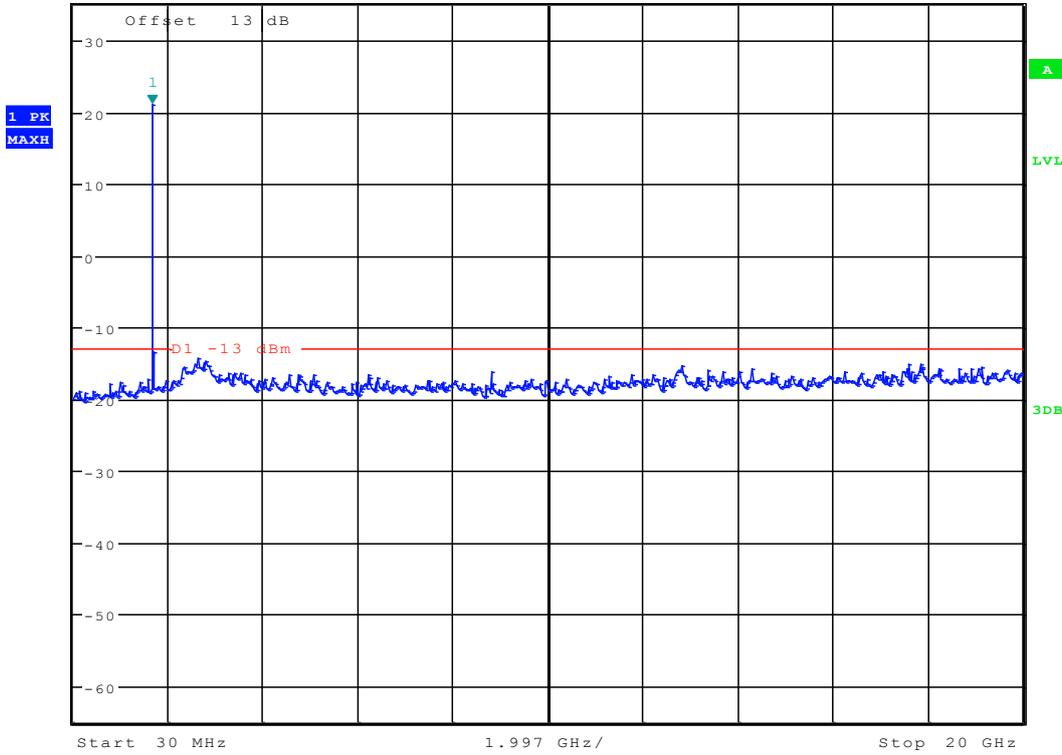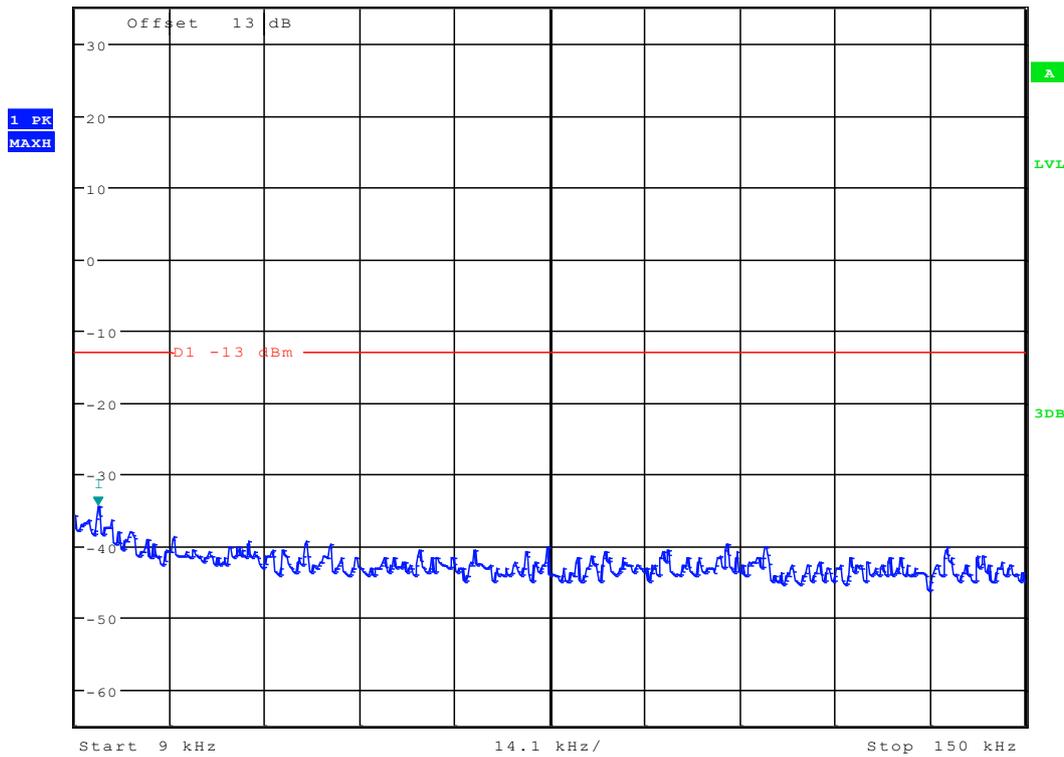Date: 19.APR.2012 12:01:38

```
                              * RBW  1 MHz        Marker 1 [T1 ]
                              * VBW  3 MHz                25.79 dBm
   Ref   35 dBm      Att  50 dB    SWT 115 ms    1.694166667 GHz
```

Offset 13 dB


```
Start  30 MHz          1.997 GHz/          Stop  20 GHz
```

Date: 19.APR.2012 11:57:29

3.1.2.1.3 QPSK/full RBs

```
                                          * RBW  1 kHz        Marker 1 [T1 ]
                                          * VBW  10 kHz                  -35.64 dBm
        Ref   35 dBm           Att  50 dB   SWT 145 ms        11.033653846 kHz
```
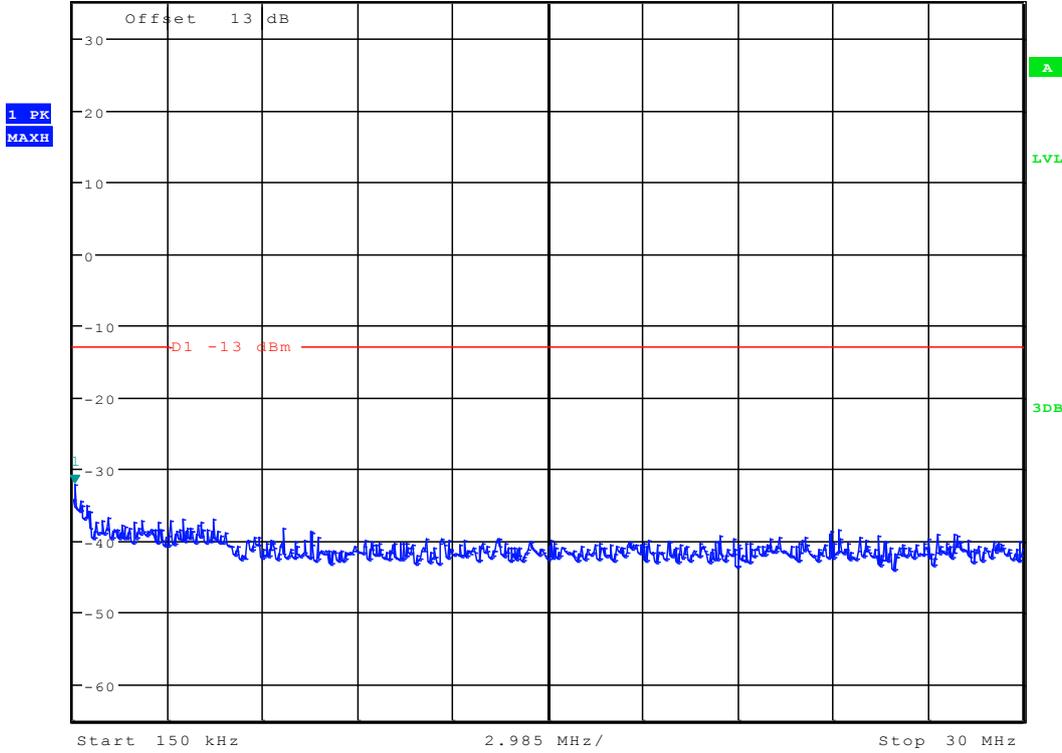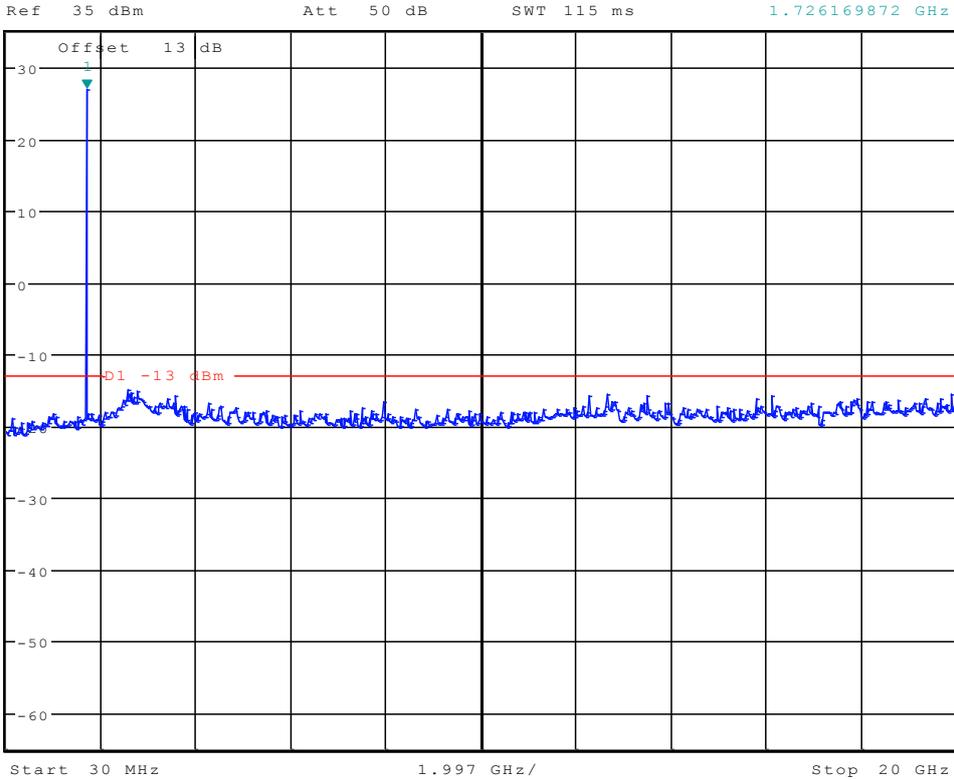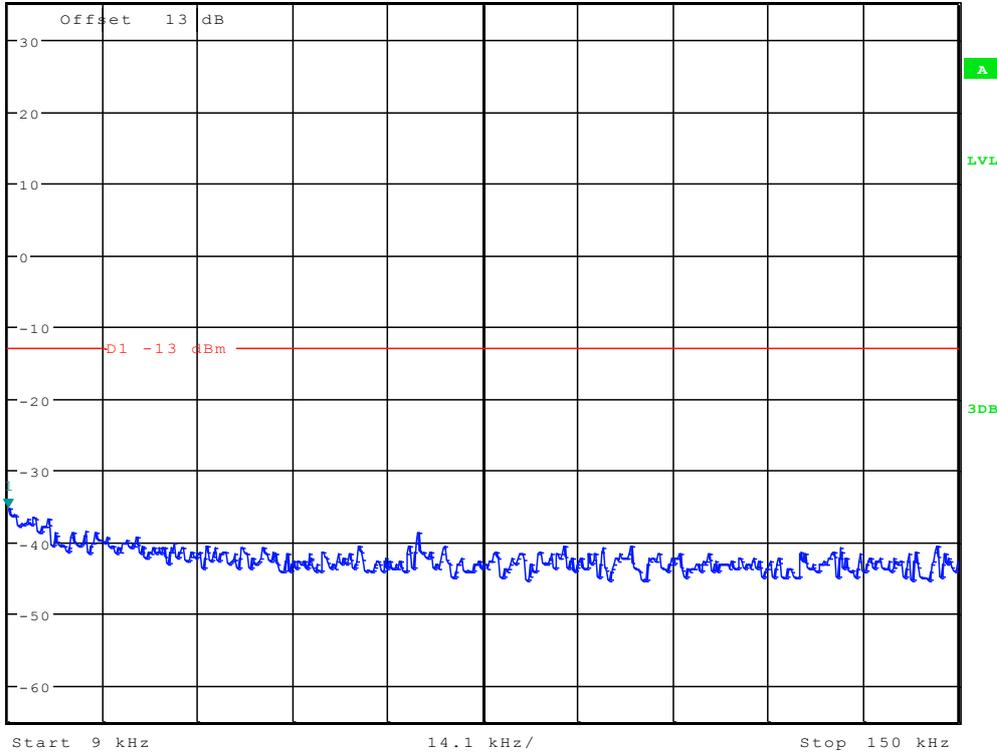


```
Date: 19.APR.2012  12:03:36
```

* RBW 10 kHz	Marker 1 [T1]	
* VBW 30 kHz	-31.06 dBm	
Ref 35 dBm	Att 50 dB	SWT 300 ms	96.303365385 kHz

Offset 13 dB

A

1 PK
MAXH

LVL

D1 -13 dBm

3DB

Start 150 Hz   2.999985 MHz/   Stop 30 MHz

Date: 19.APR.2012 12:00:46

* RBW 1 MHz	Marker 1 [T1]
* VBW 3 MHz	20.96 dBm
Ref 35 dBm Att 50 dB SWT 115 ms	1.694166667 GHz

Offset 13 dB

D1 -13 dBm

Start 30 MHz   1.997 GHz/   Stop 20 GHz

Date: 19.APR.2012 12:00:08

3.1.2.2 Channel = M

3.1.2.2.1 QPSK/1RBs /RB #0

Date: 19.APR.2012 12:14:23

Date: 19.APR.2012 12:16:16

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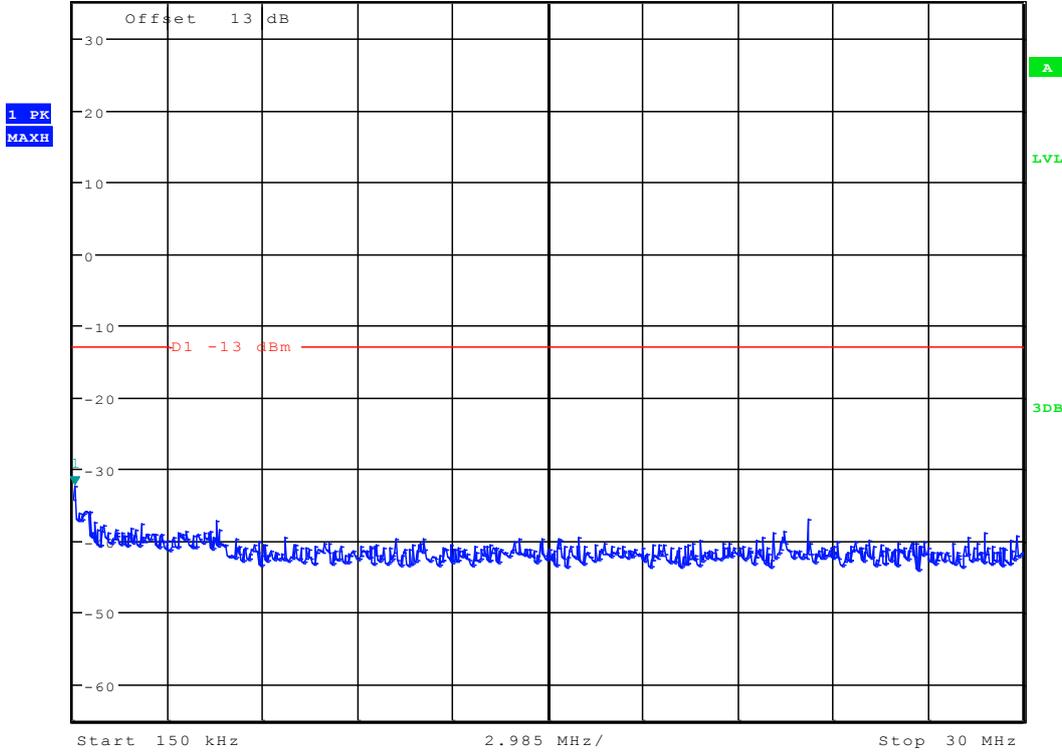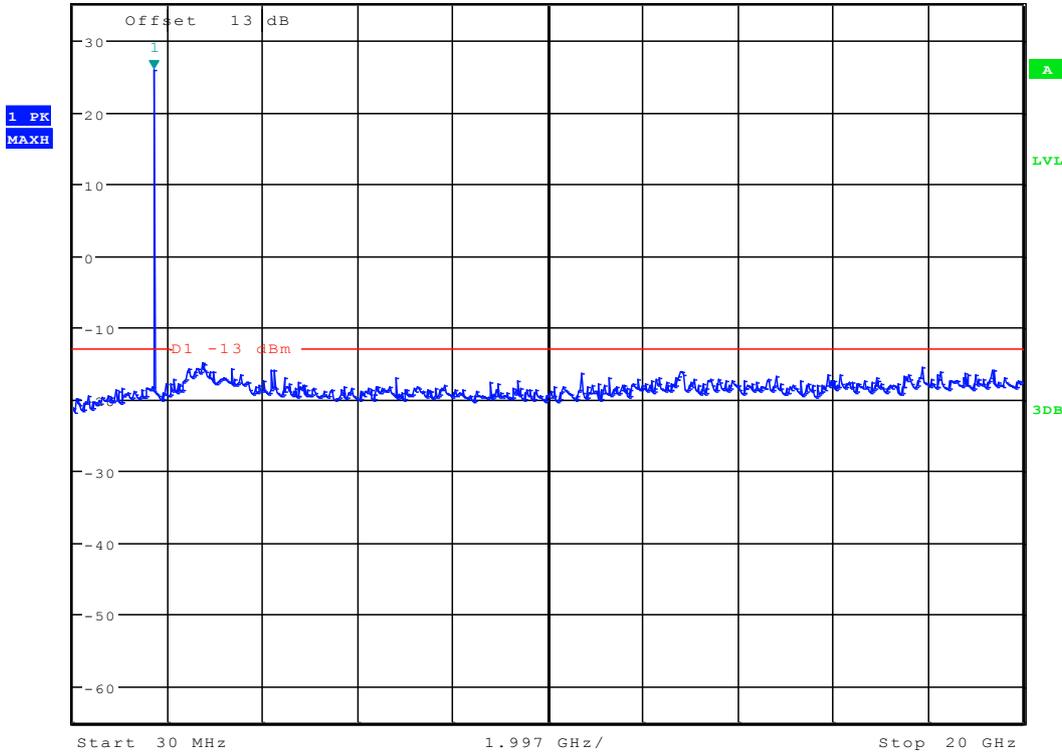
```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  3 MHz                26.85 dBm
         Ref   35 dBm        Att  50 dB   SWT 115 ms    1.726169872 GHz
```
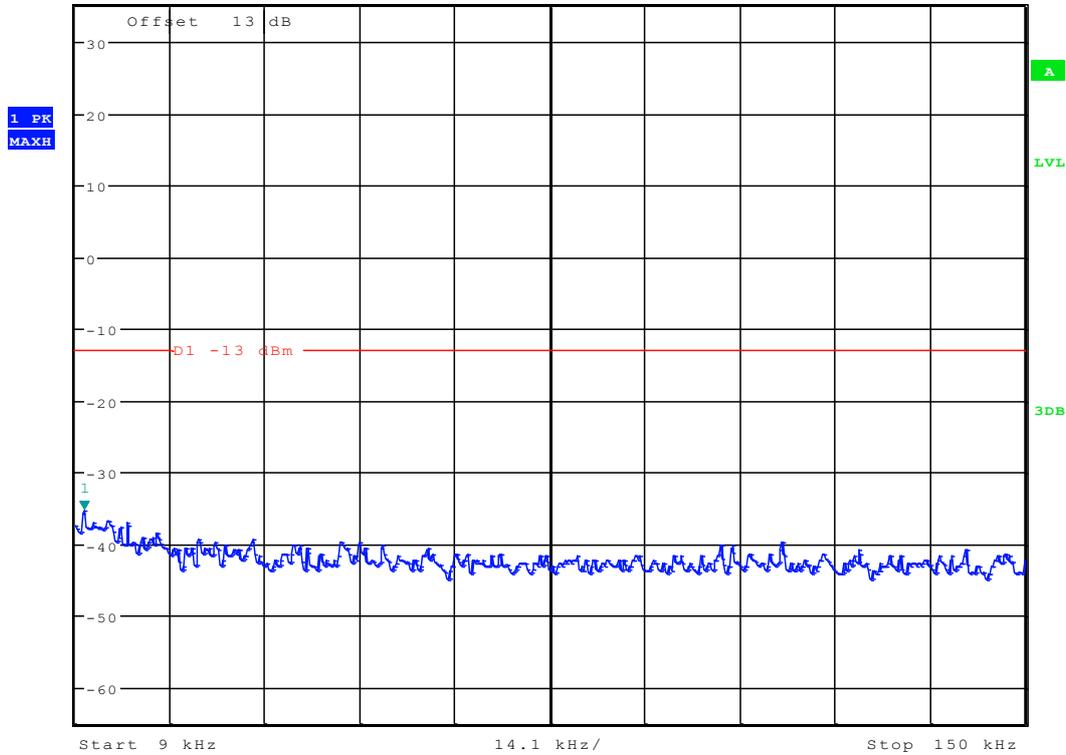


```
Start  30 MHz              1.997 GHz/              Stop  20 GHz
```

Date: 19.APR.2012 12:17:41

3.1.2.2.2 QPSK/1RBs /RB #max

```
                                      * RBW  1 kHz      Marker 1 [T1 ]
                                      * VBW  10 kHz                -35.21 dBm
      Ref   35 dBm          Att  50 dB   SWT  145 ms     9.000000000 kHz
```

Date: 19.APR.2012 12:15:17

Date: 19.APR.2012 12:15:57

```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  3 MHz               25.82 dBm
        Ref   35 dBm        Att  50 dB   SWT  115 ms    1.726169872 GHz
```
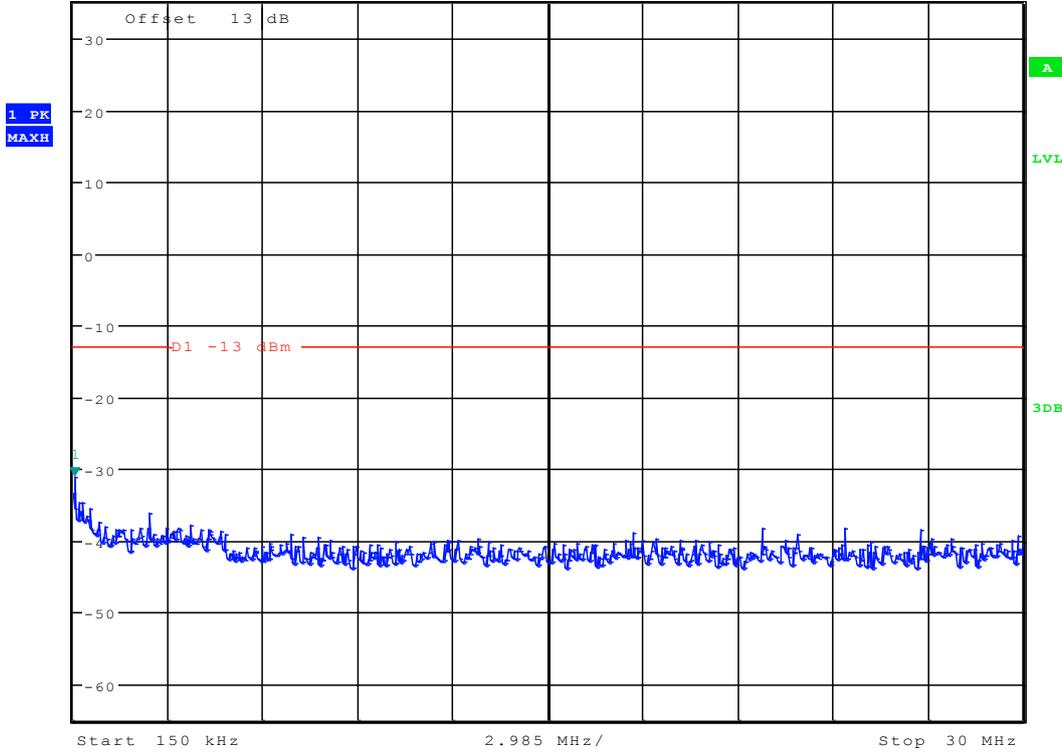


```
Start  30 MHz              1.997 GHz/              Stop  20 GHz
```

Date: 19.APR.2012 12:17:59

3.1.2.2.3 QPSK/full RBs

```
                                    * RBW  1 kHz      Marker 1 [T1 ]
                                    * VBW  10 kHz              -35.21 dBm
     Ref   35 dBm          Att   50 dB   SWT  145 ms      10.355769231 kHz

         Offset   13 dB
        -30                                                              A
1 PK    -20
MAXH                                                                     LVL
        -10

         0

        -10
                 D1 -13 dBm
        -20                                                              3DB
        -30
          1
        -40
        -50
        -60

     Start  9 kHz            14.1 kHz/              Stop  150 kHz
```
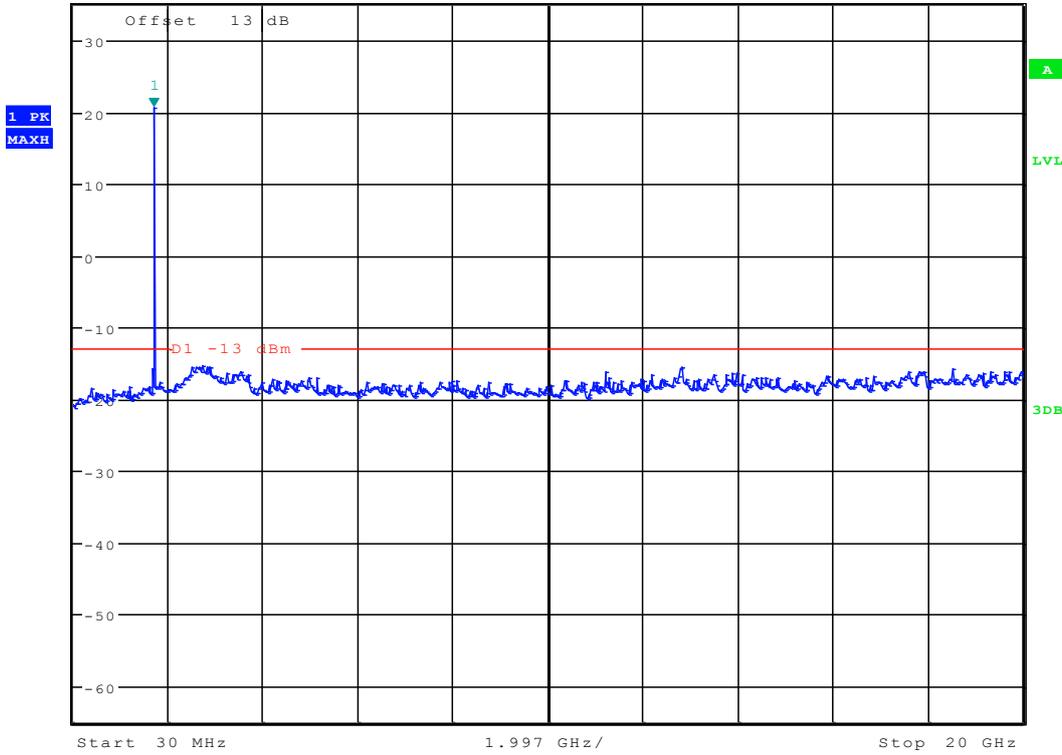
Date: 19.APR.2012 12:13:52

Date: 19.APR.2012 12:16:36

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```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  3 MHz                 20.64 dBm
      Ref   35 dBm      Att  50 dB   SWT  115 ms        1.726169872 GHz
```
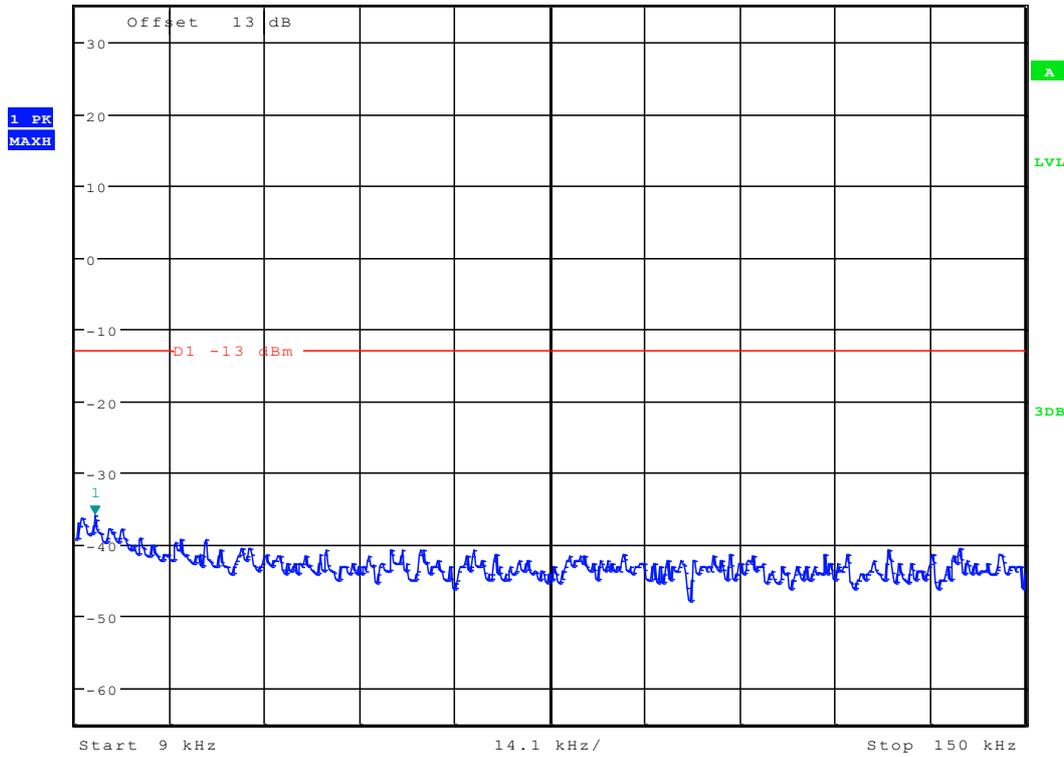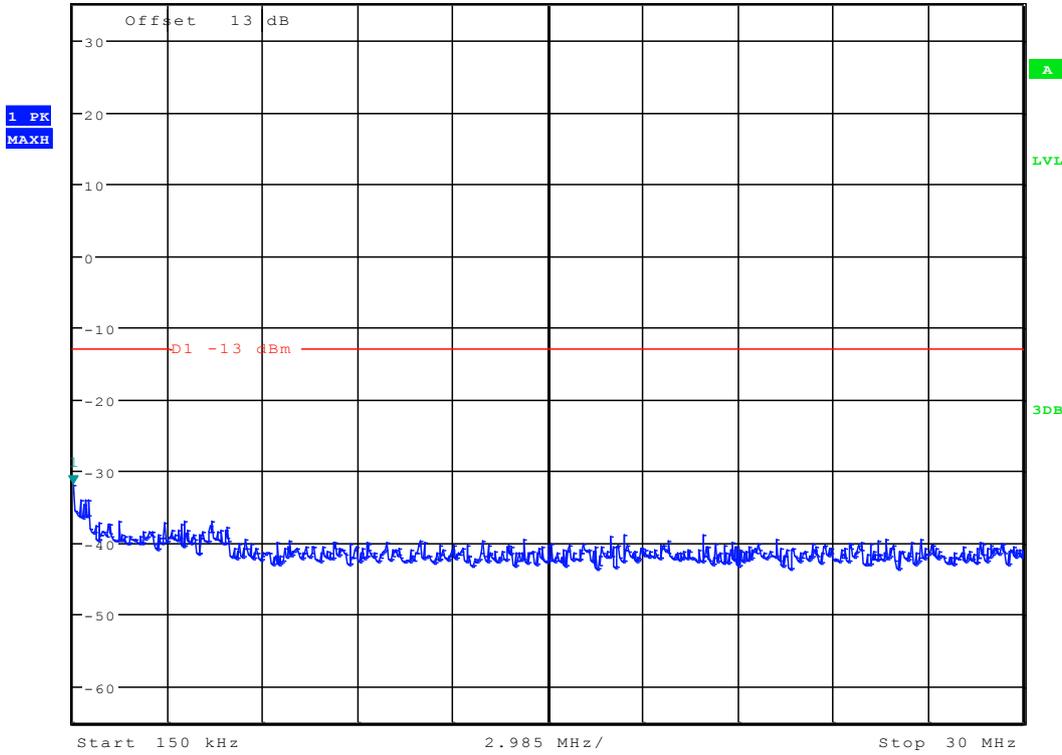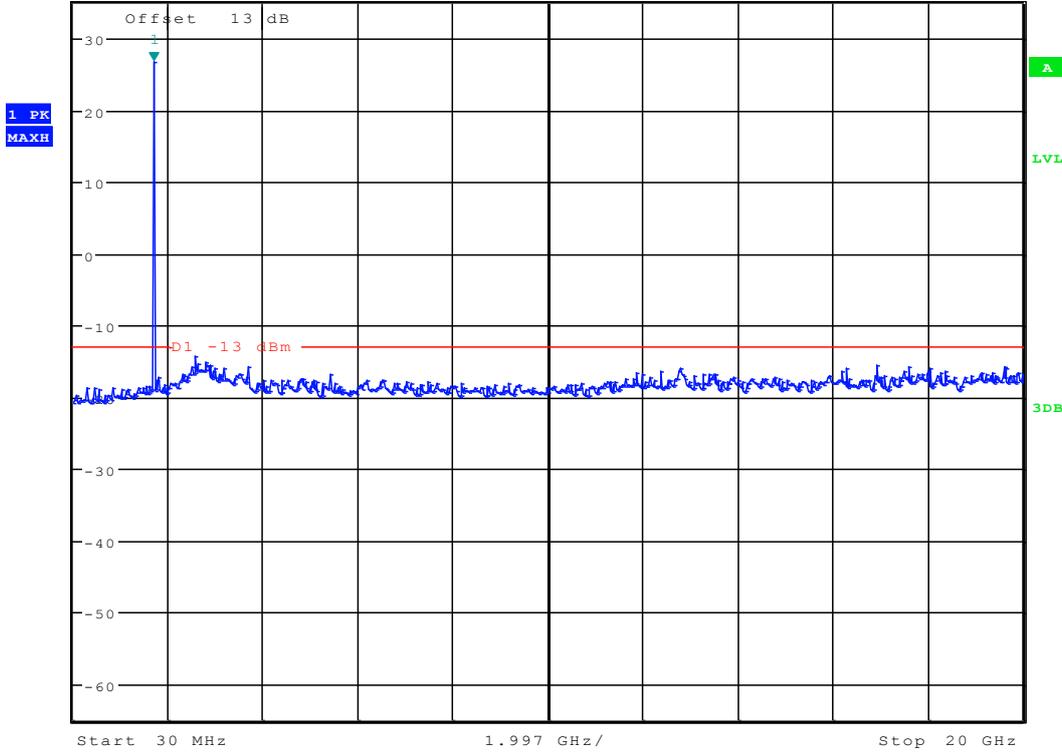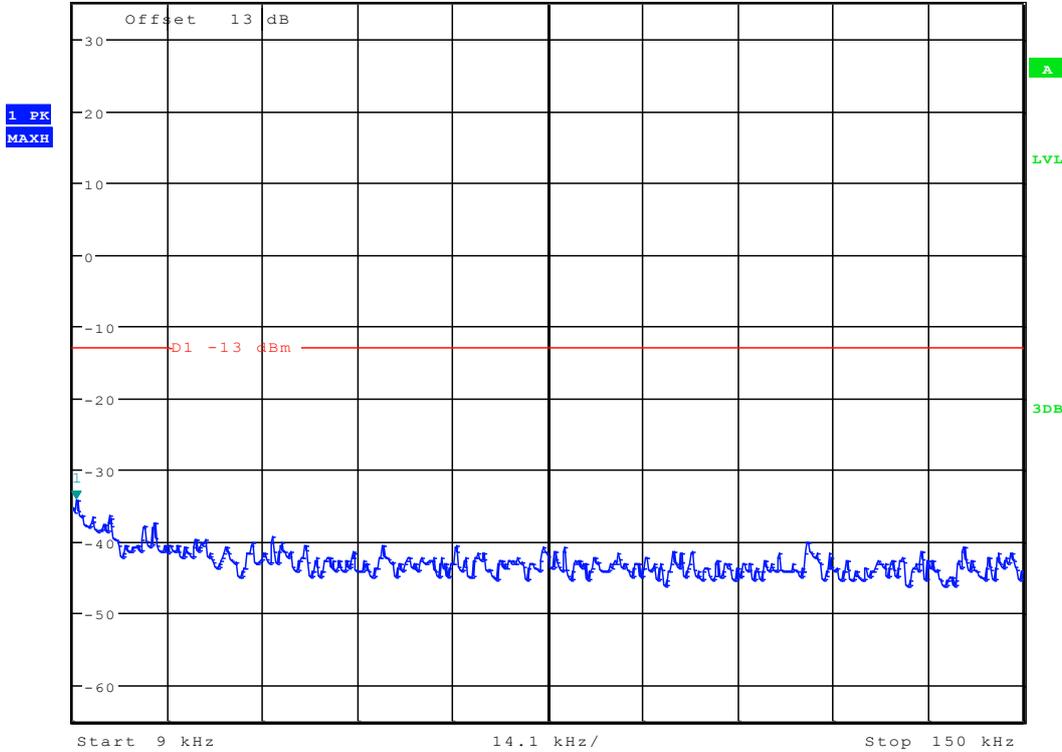


```
Start  30 MHz              1.997 GHz/              Stop  20 GHz
```

Date: 19.APR.2012 12:17:22

3.1.2.3 Channel = T

3.1.2.3.1 QPSK/1RBs /RB #0

Date: 19.APR.2012 12:27:24

Date: 19.APR.2012 12:26:02

```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  3 MHz                26.66 dBm
       Ref   35 dBm      Att  50 dB    SWT  115 ms      1.726169872 GHz

        Offset   13 dB
      -30
   1 PK
   MAXH
      -20

      -10

       0

      -10
        D1 -13 dBm

      -20

      -30

      -40

      -50

      -60

     Start  30 MHz         1.997 GHz/            Stop  20 GHz
```
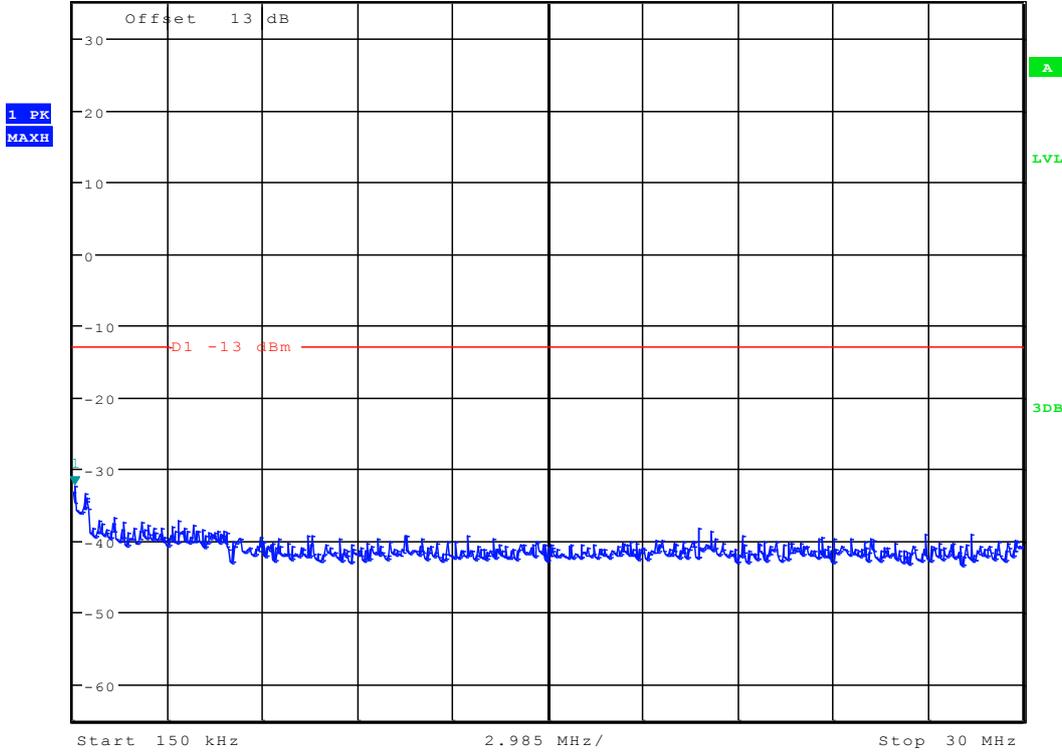
A
LVL
3DB

Date: 19.APR.2012 12:20:56

3.1.2.3.2 QPSK/1RBs /RB #max


```
                                    * RBW  1 kHz        Marker 1 [T1 ]
                                    * VBW 10 kHz                    -34.17 dBm
        Ref   35 dBm          Att   50 dB    SWT 145 ms    9.451923077 kHz

            Offset   13 dB
         -30                                                            A

1 PK     -20
MAXH
                                                                       LVL
         -10

          0

         -10
            D1 -13 dBm
                                                                       3DB
         -20

         -30

         -40

         -50

         -60

        Start  9 kHz             14.1 kHz/             Stop  150 kHz
```
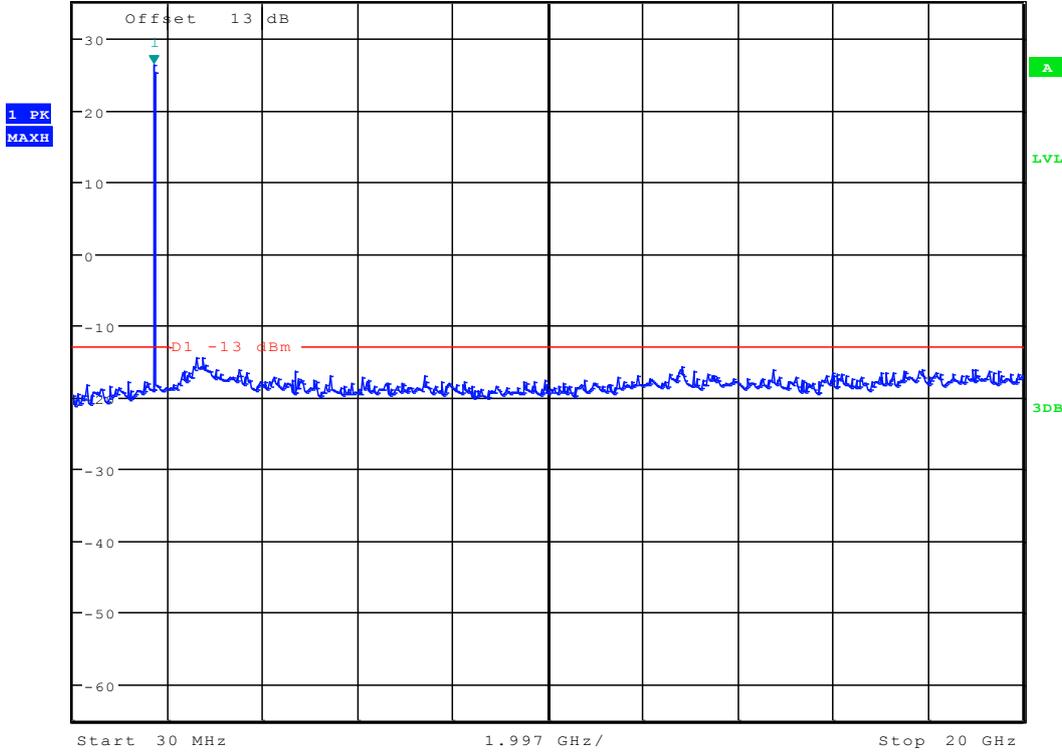
Date: 19.APR.2012 12:27:05

```
                                    * RBW 10 kHz      Marker 1 [T1 ]
                                    * VBW 30 kHz              -32.24 dBm
     Ref  35 dBm        Att  50 dB   SWT 300 ms       197.836538462 kHz
```

Date: 19.APR.2012 12:26:26

```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  3 MHz              26.34 dBm
      Ref   35 dBm        Att  50 dB    SWT  115 ms    1.726169872 GHz

      Offset   13 dB
   -30  1

1 PK
MAXH  -20

      -10

       0

      -10                 D1  -13 dBm

      -20

      -30

      -40

      -50

      -60

      Start  30 MHz          1.997 GHz/          Stop  20 GHz
```
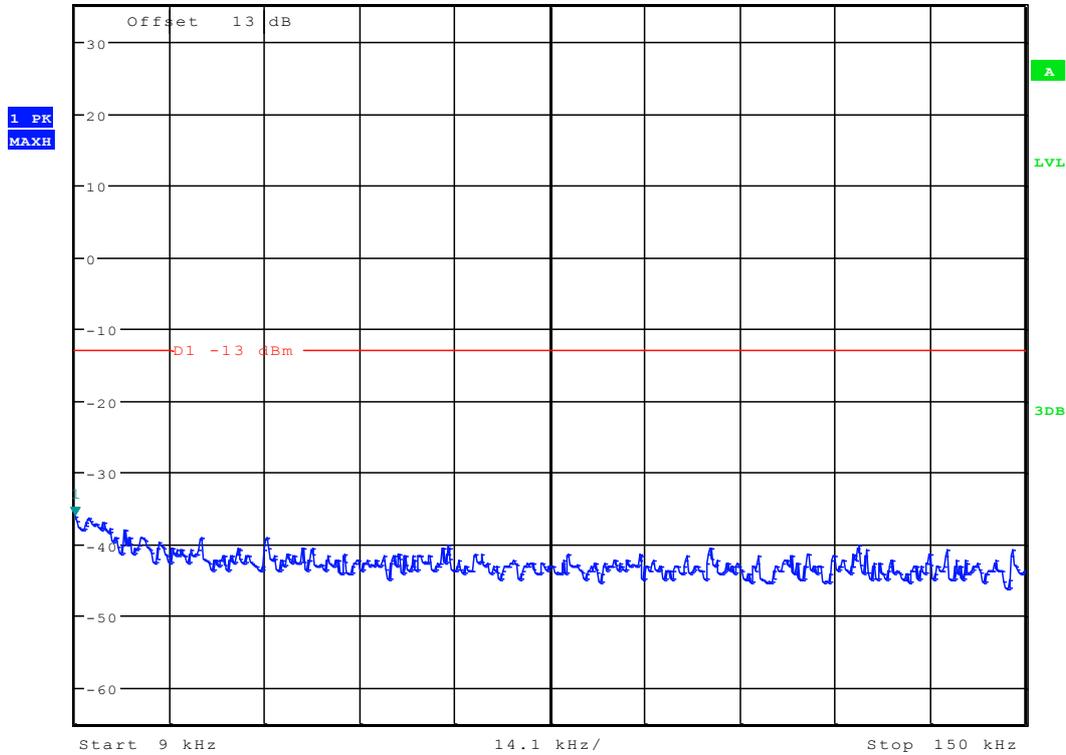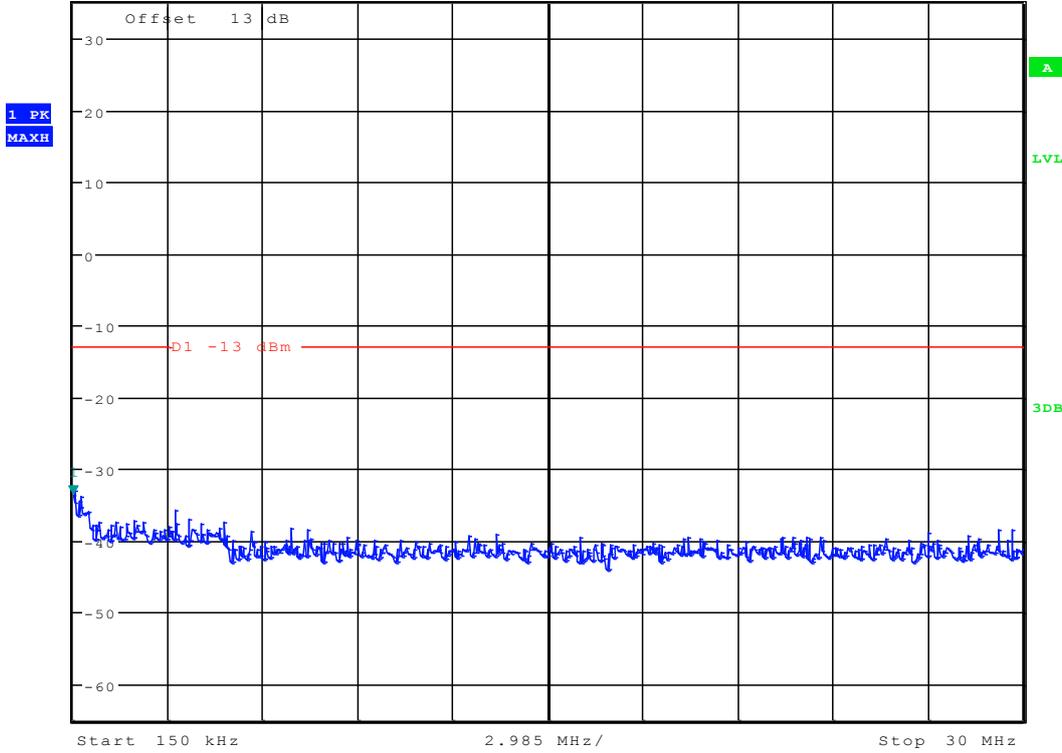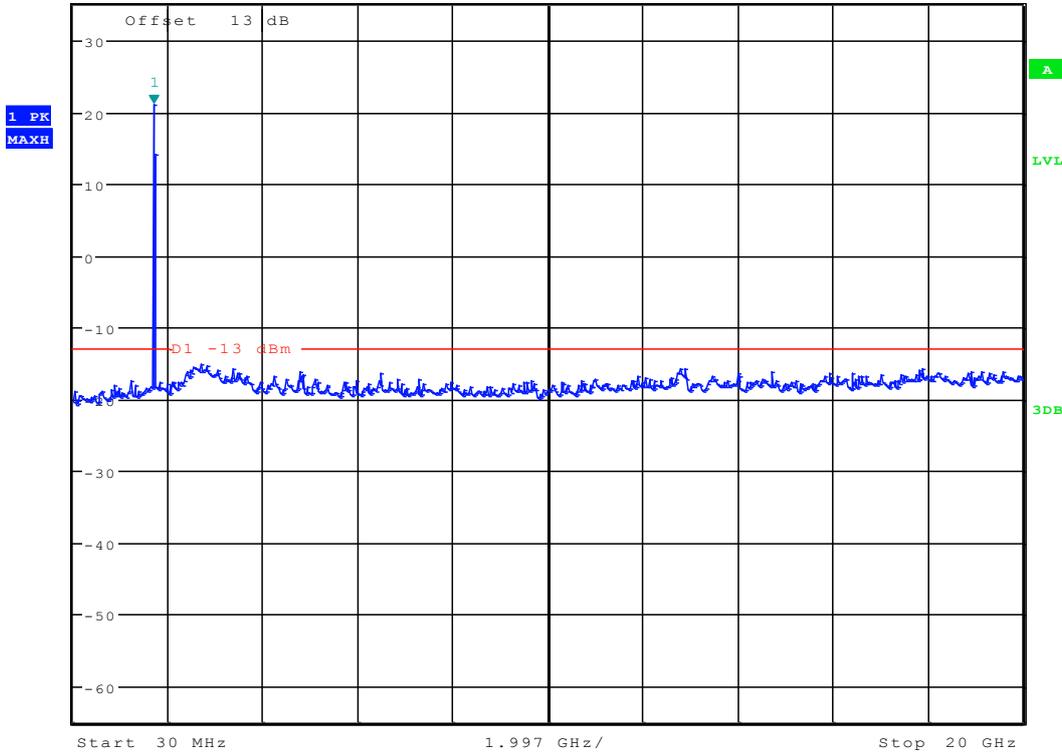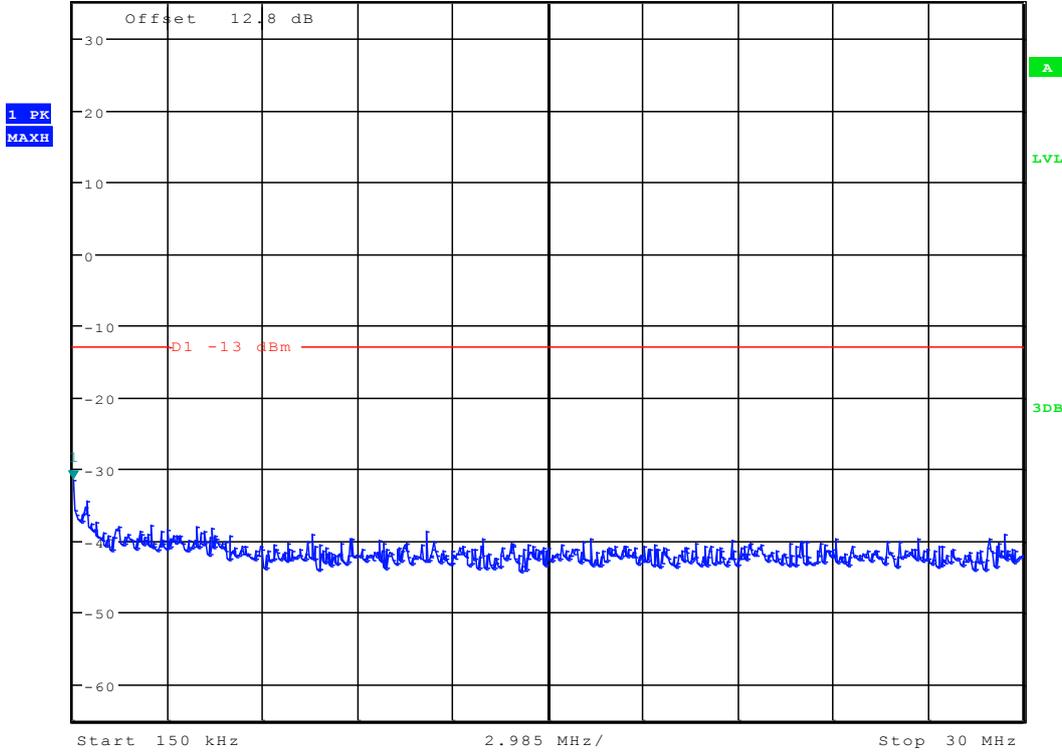
Date: 19.APR.2012 12:20:22

3.1.2.3.3 QPSK/full RBs

```
                                  * RBW  1 kHz        Marker 1 [T1 ]
                                  * VBW  10 kHz              -36.09 dBm
     Ref   35 dBm        Att  50 dB     SWT  145 ms    9.000000000 kHz
```
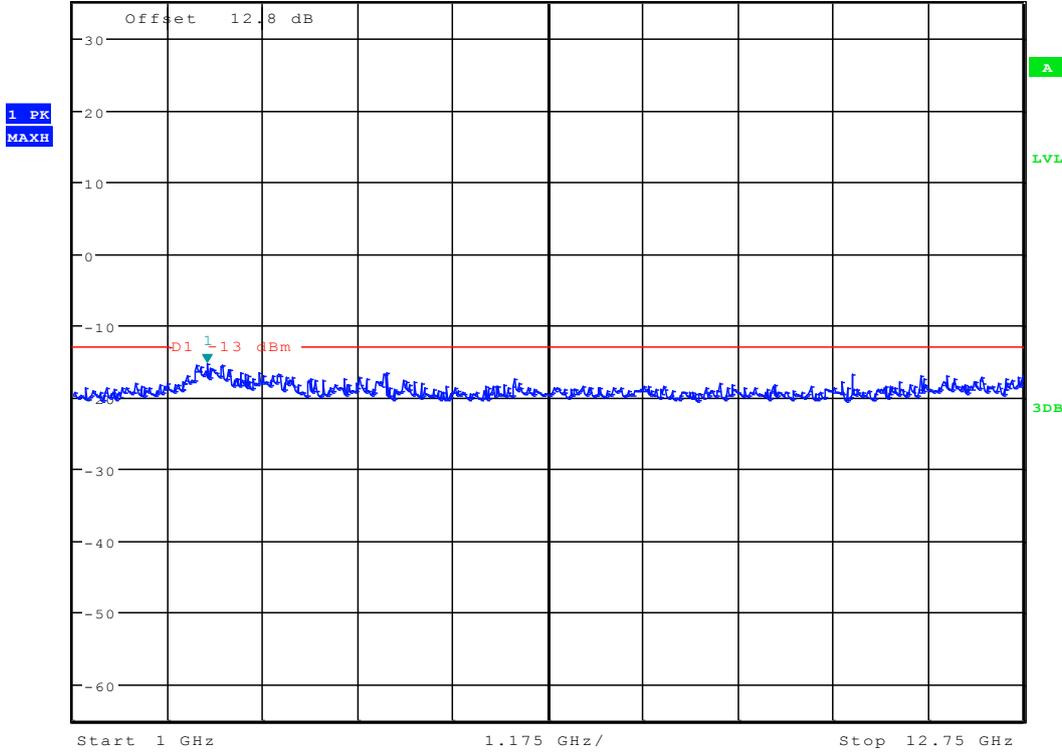


```
Start  9 kHz              14.1 kHz/              Stop  150 kHz
```

Date: 19.APR.2012 12:27:48

Date: 19.APR.2012 12:25:36

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Date: 19.APR.2012 12:21:55

Report No:
SYBH(Z-RF)014042012-2003

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4   For Band 12

NOTE1: QPSK output power higher than 16QAM, so only test the QPSK mode.
NOTE2: All relevant operation modes have been tested, and the 1RB&full RB case data is included in this report.

4.1   Test Mode=TM4

4.1.1   Channel Bandwidth = Lowest (1.4 MHz)

4.1.1.1 Channel = B

4.1.1.1.1 QPSK/1RBs /RB #0
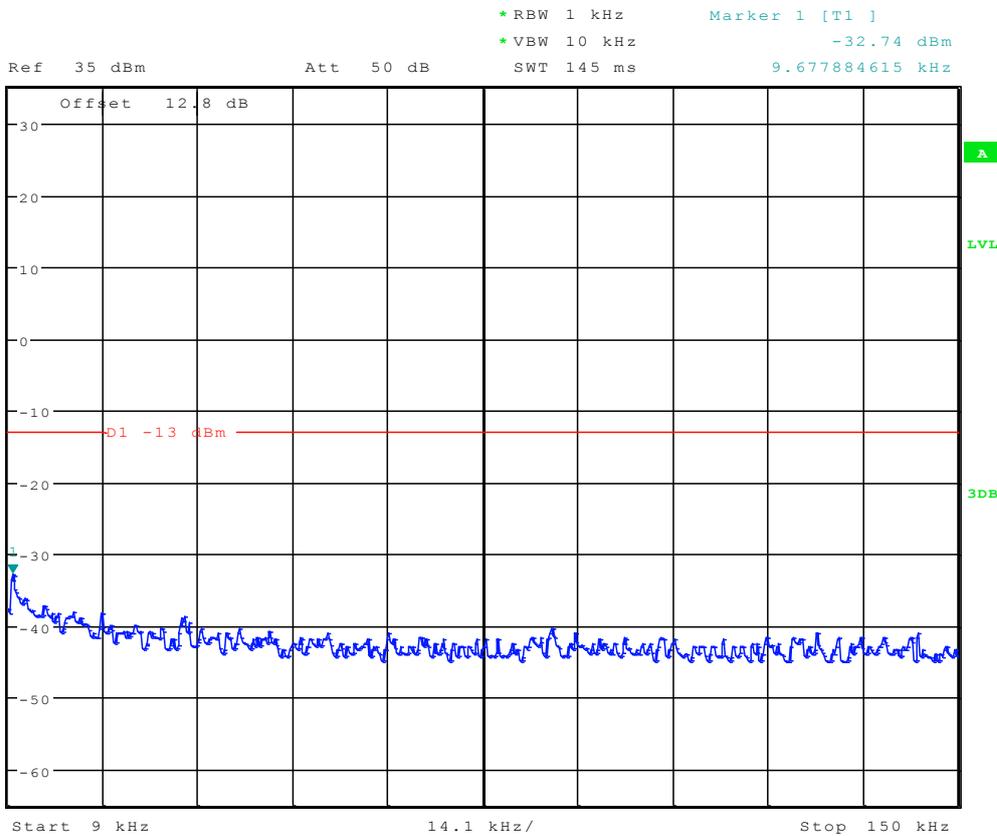
Date: 18.APR.2012 18:20:16

Date: 18.APR.2012 18:21:56

Report No:
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```
                                    * RBW  100 kHz     Marker 1 [T1 ]
                                    * VBW  300 kHz              25.21 dBm
         Ref   35 dBm        Att  50 dB    SWT 100 ms    699.983974359 MHz
```
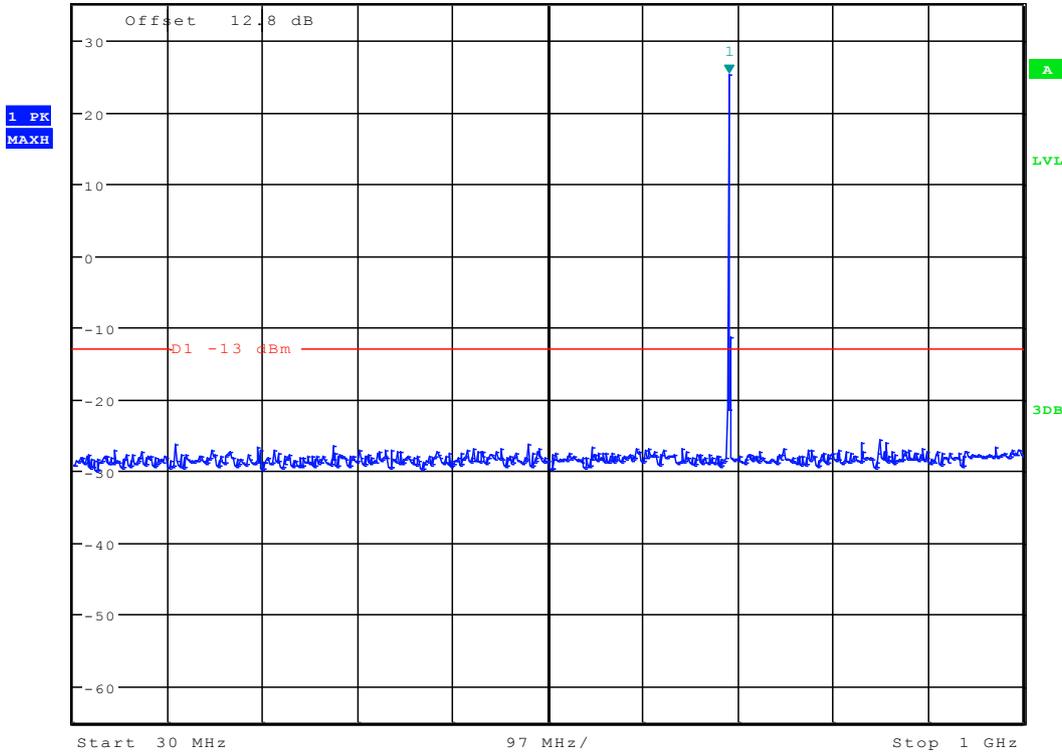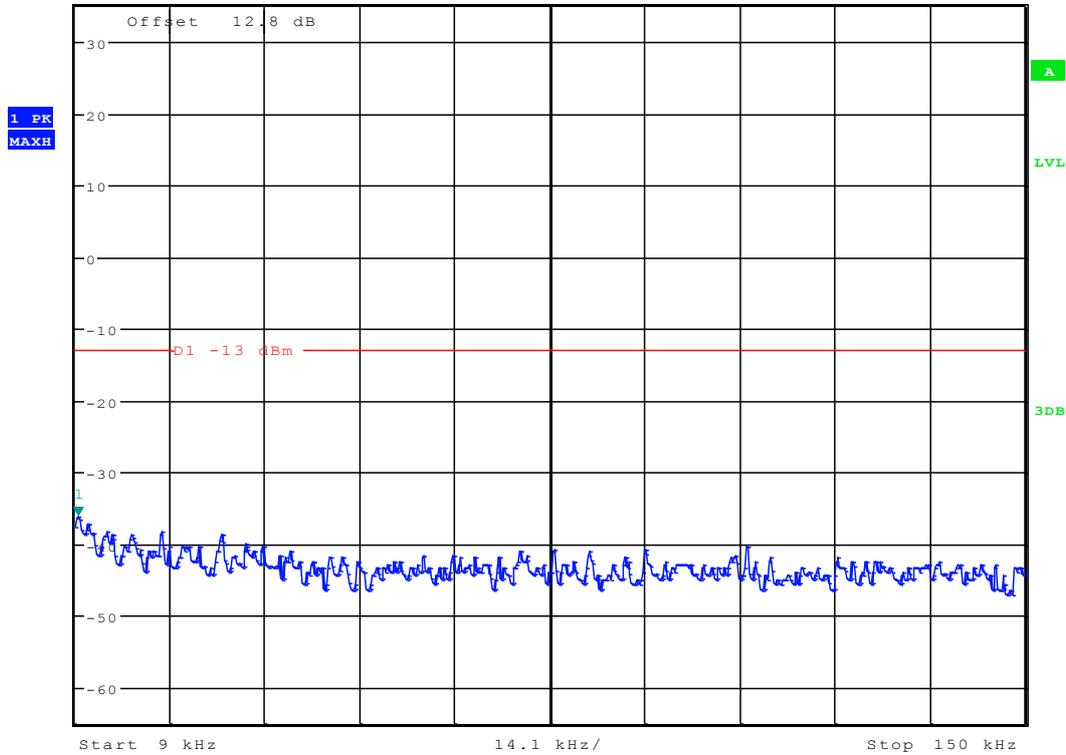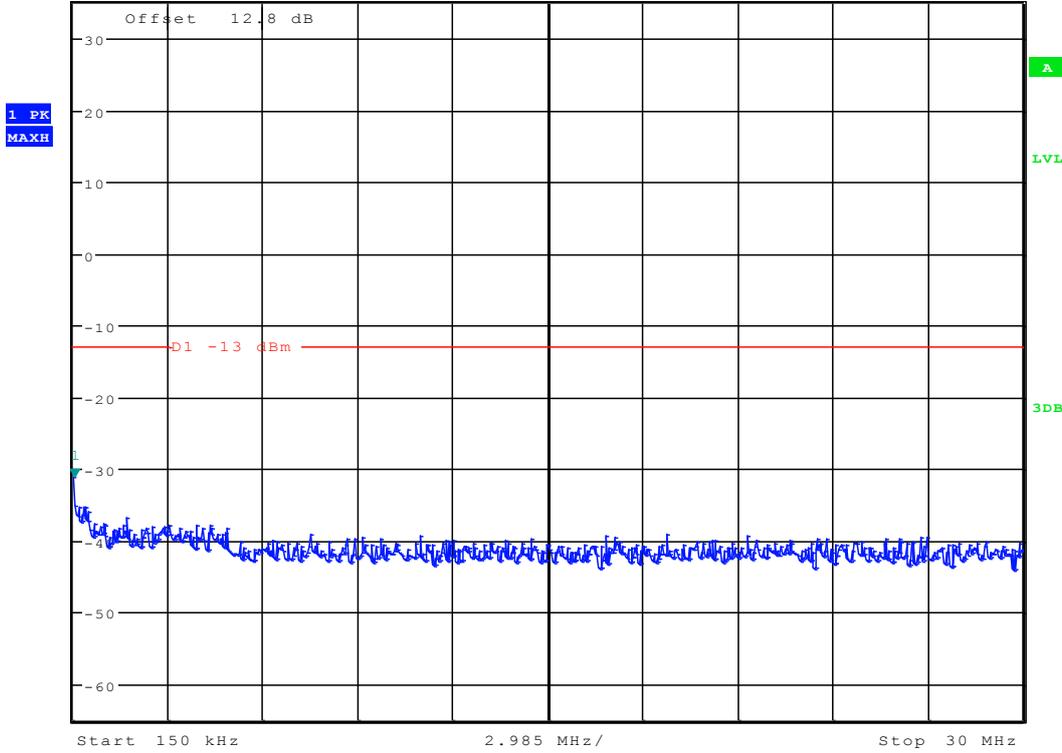


```
Start  30 MHz               97 MHz/                    Stop  1 GHz
```

Date: 18.APR.2012 18:23:35

Date: 18.APR.2012 18:24:49

4.1.1.1.2 QPSK/1RBs /RB #max

```
                                    * RBW  1 kHz        Marker 1 [T1 ]
                                    * VBW 10 kHz                -36.02 dBm
        Ref   35 dBm        Att  50 dB    SWT 145 ms        9.451923077 kHz

         Offset  12.8 dB                                                    A
      -30
      -20                                                                   LVL
      -10
       0
      -10
      D1 -13 dBm
      -20                                                                   3DB
      -30
    1
      -40
      -50
      -60

      Start  9 kHz              14.1 kHz/              Stop  150 kHz
```
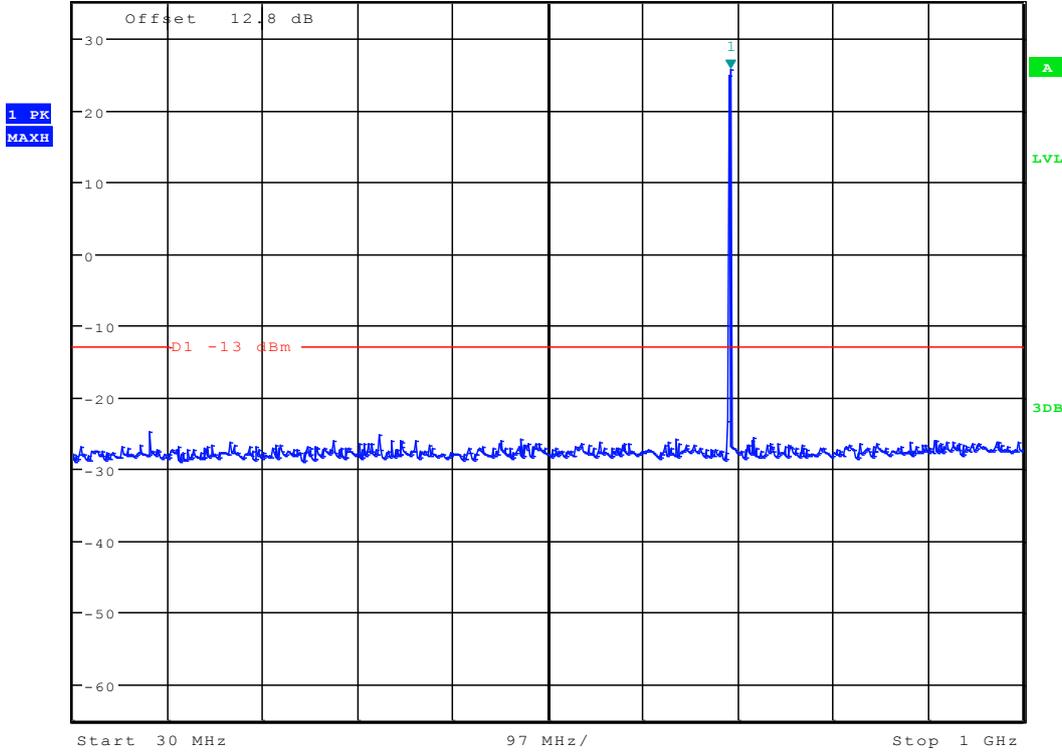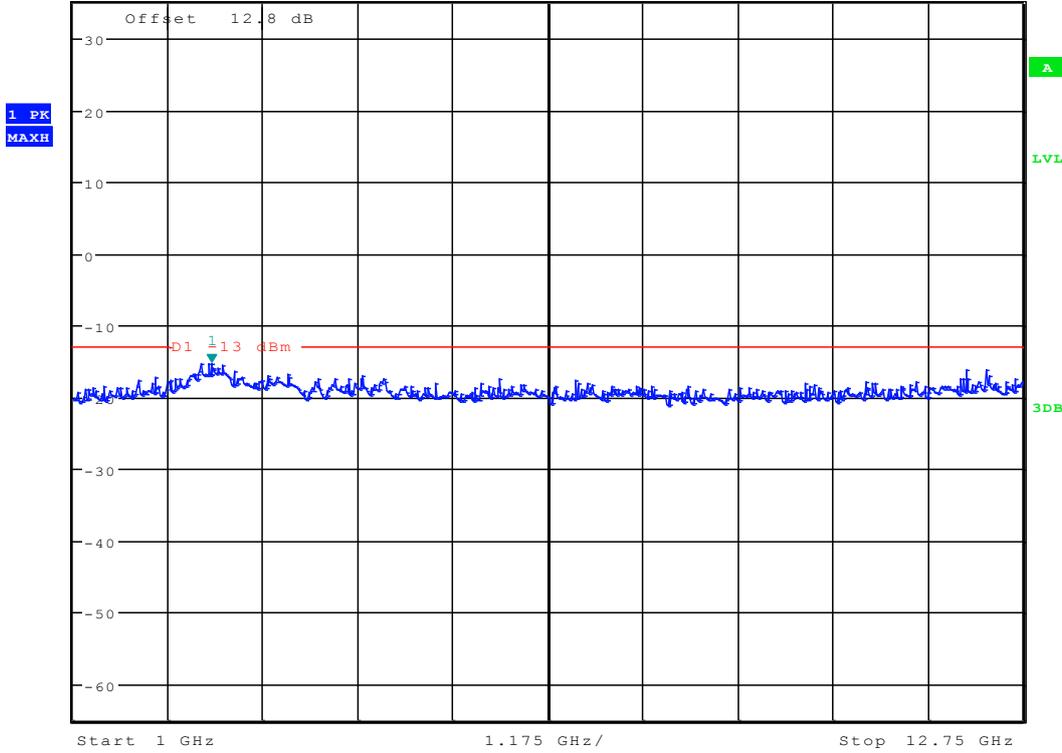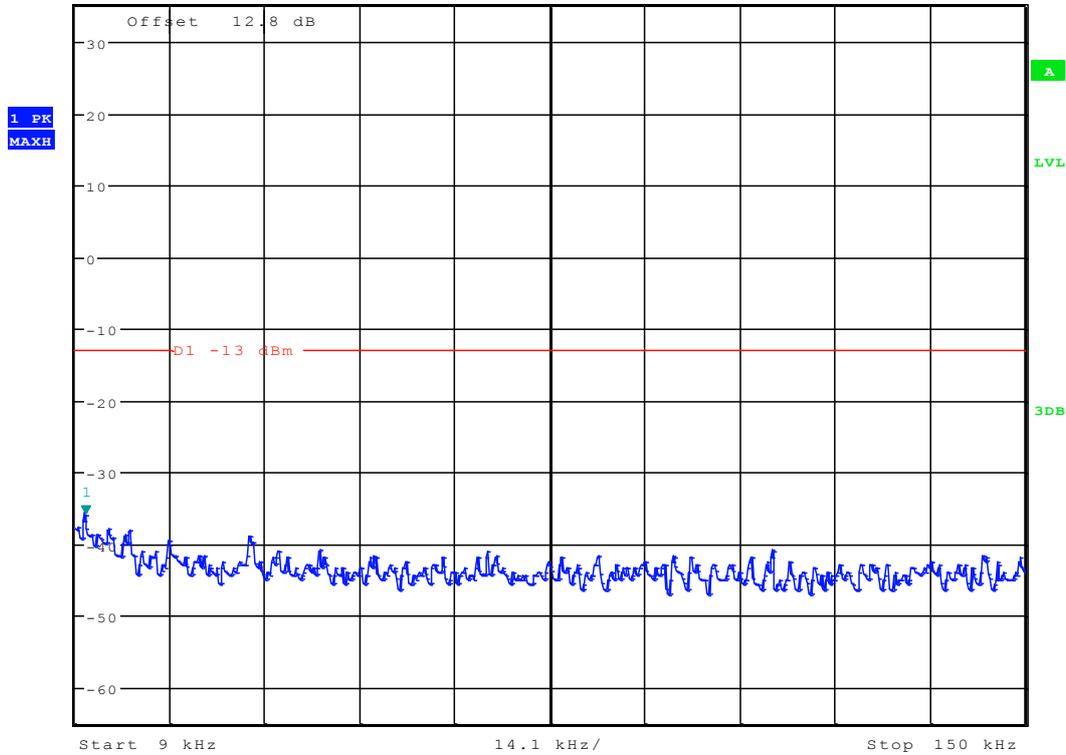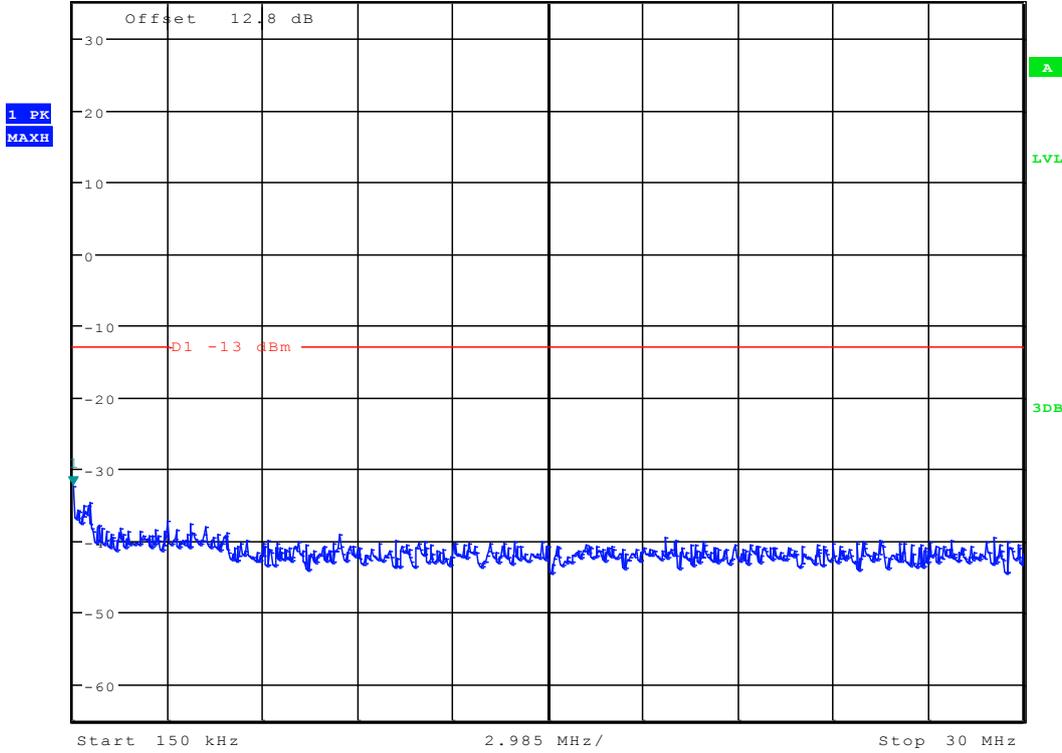
Date: 18.APR.2012 18:20:36

Date: 18.APR.2012 18:22:36

Report No:
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```
* RBW 100 kHz          Marker 1 [T1 ]
* VBW 300 kHz                  25.55 dBm
Ref  35 dBm        Att  50 dB    SWT 100 ms     701.538461538 MHz

      Offset  12.8 dB
    30

1 PK  20
MAXH
    10

     0

   -10   D1 -13 dBm

   -20

   -30

   -40

   -50

   -60

Start  30 MHz        97 MHz/              Stop  1 GHz
```

Date: 18.APR.2012 18:23:19

*RBW 1 MHz
*VBW 3 MHz
Marker 1 [T1]
-15.27 dBm
Ref 35 dBm   Att 50 dB   SWT 70 ms   2.713541667 GHz

Offset 12.8 dB

1 PK
MAXH

A

LVL

D1 13 dBm

3DB

Start 1 GHz   1.175 GHz/   Stop 12.75 GHz

Date: 18.APR.2012 18:25:08

4.1.1.1.3 QPSK/full RBs

Date: 18.APR.2012 18:20:55

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Date: 18.APR.2012 18:21:37

```
                              * RBW  100 kHz      Marker 1 [T1 ]
                              * VBW  300 kHz              20.23 dBm
        Ref   35 dBm          Att  50 dB    SWT  100 ms   699.983974359 MHz
```
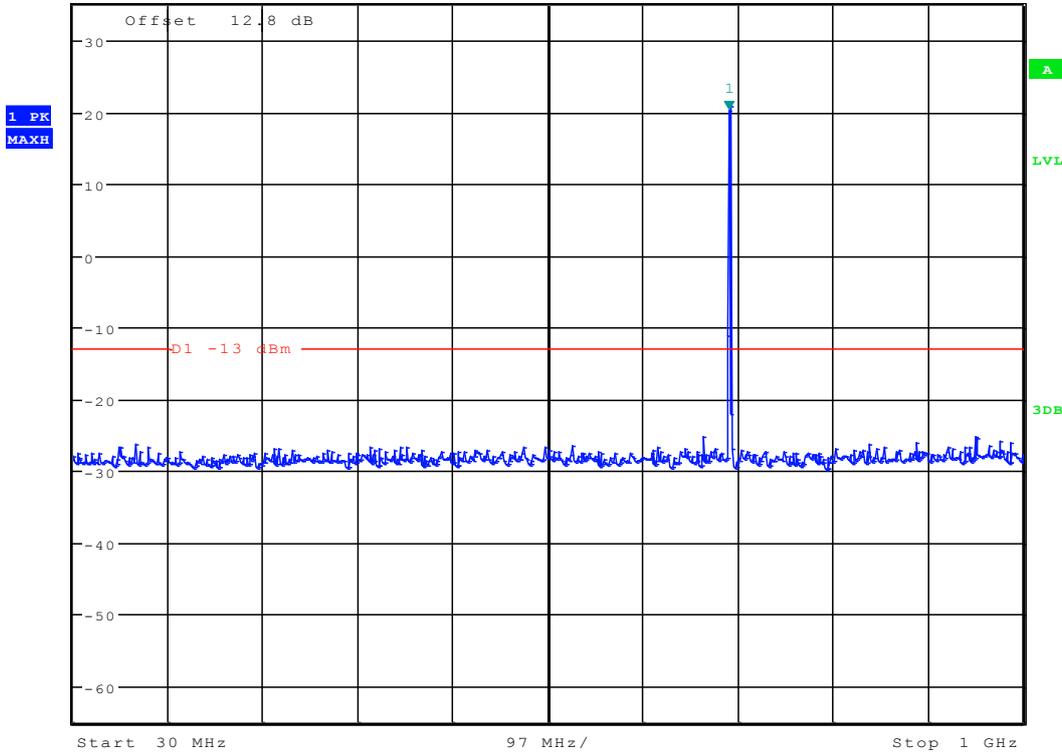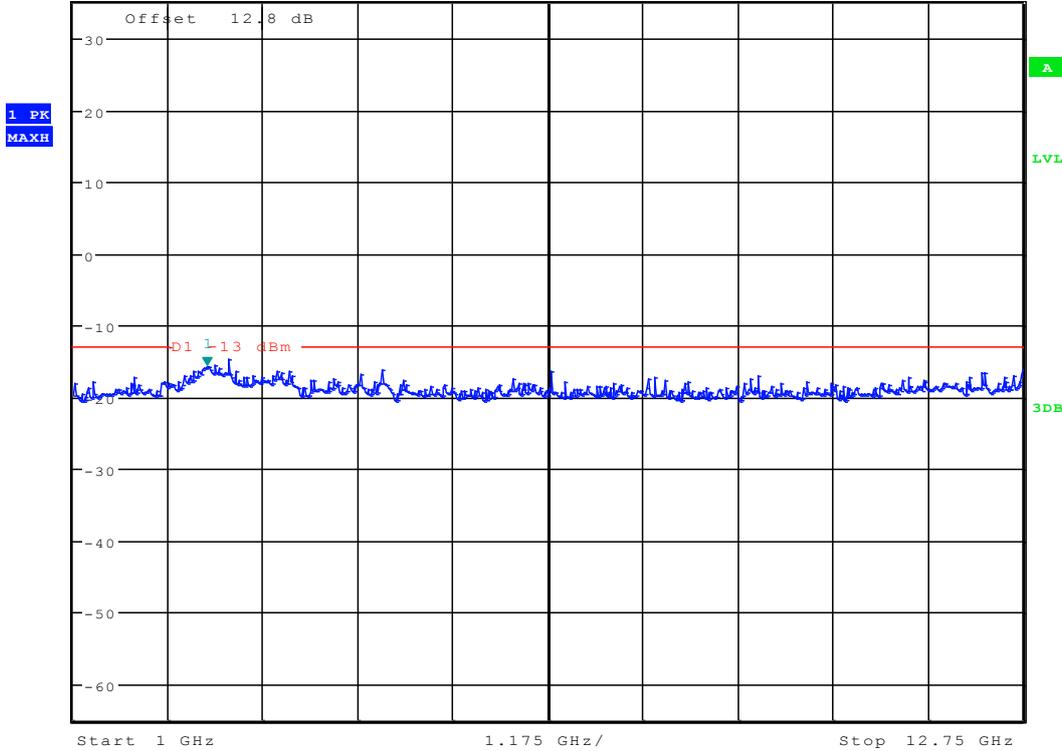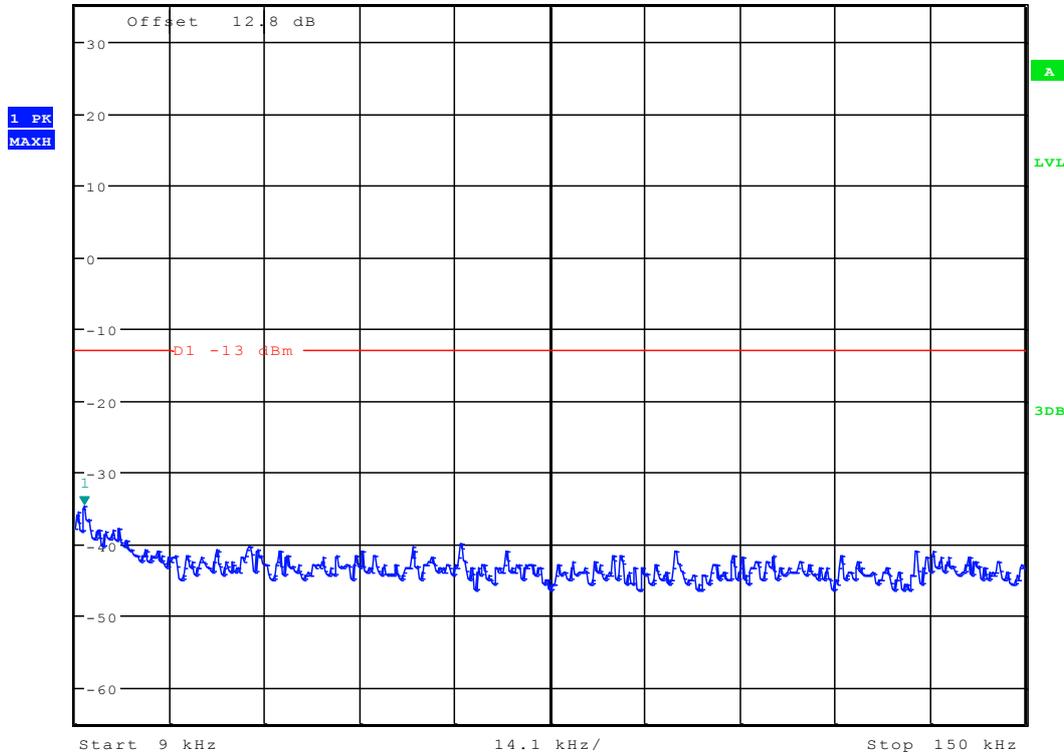
Date: 18.APR.2012 18:23:57

Date: 18.APR.2012 18:24:30

4.1.1.2 Channel = M

4.1.1.2.1 QPSK/1RBs /RB #0

Date: 18.APR.2012 18:45:16

Date: 18.APR.2012 18:44:00

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Date: 18.APR.2012 18:27:46

```
                                    * RBW  1 MHz          Marker 1 [T1 ]
                                    * VBW  3 MHz                  -15.64 dBm
     Ref   35 dBm         Att  50 dB      SWT  70 ms      2.619391026 GHz
```
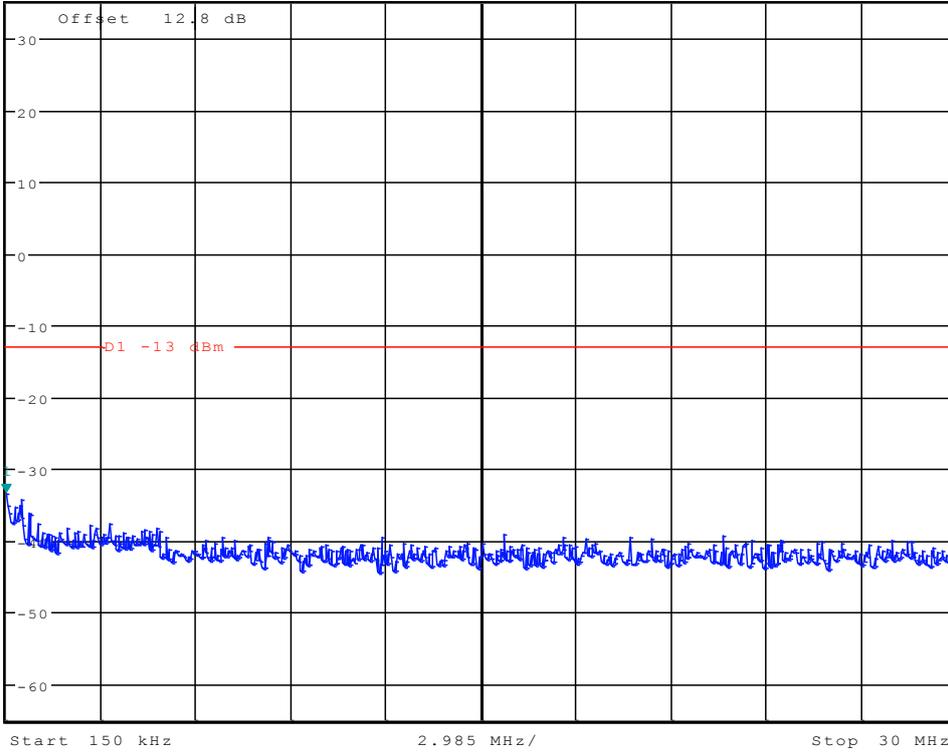


```
Start  1 GHz              1.175 GHz/              Stop  12.75 GHz
```

Date: 18.APR.2012 18:26:00

4.1.1.2.2 QPSK/1RBs /RB #max

```
                              * RBW  1 kHz      Marker 1 [T1 ]
                              * VBW 10 kHz              -35.41 dBm
    Ref  35 dBm      Att  50 dB    SWT 145 ms    9.000000000 kHz
```
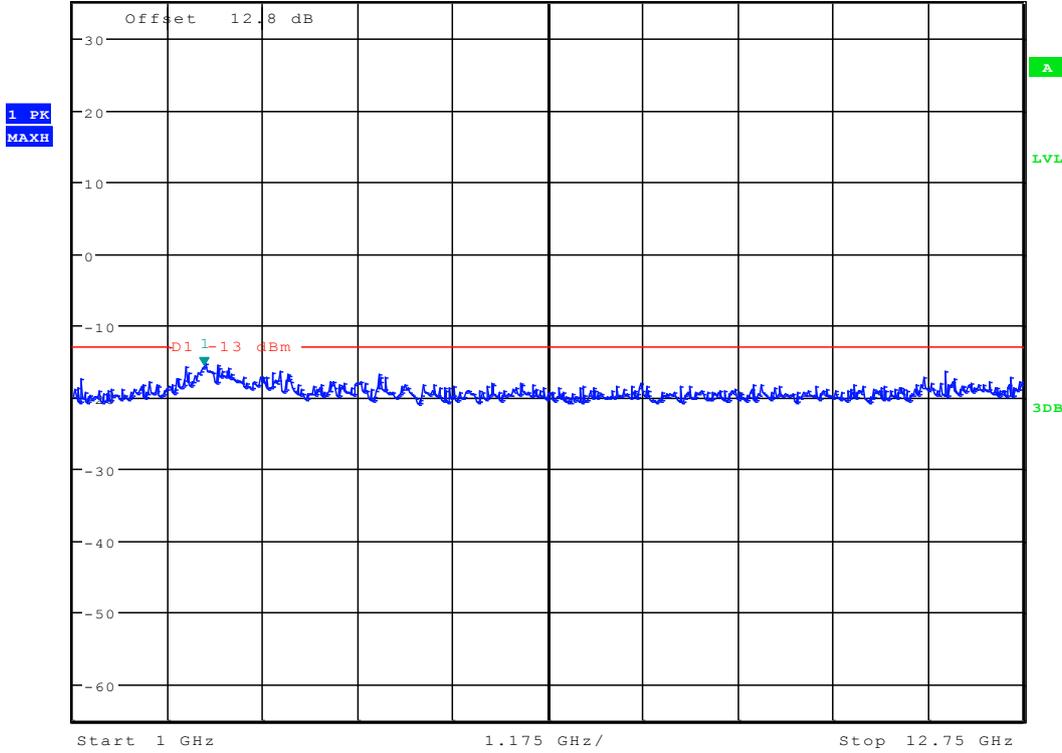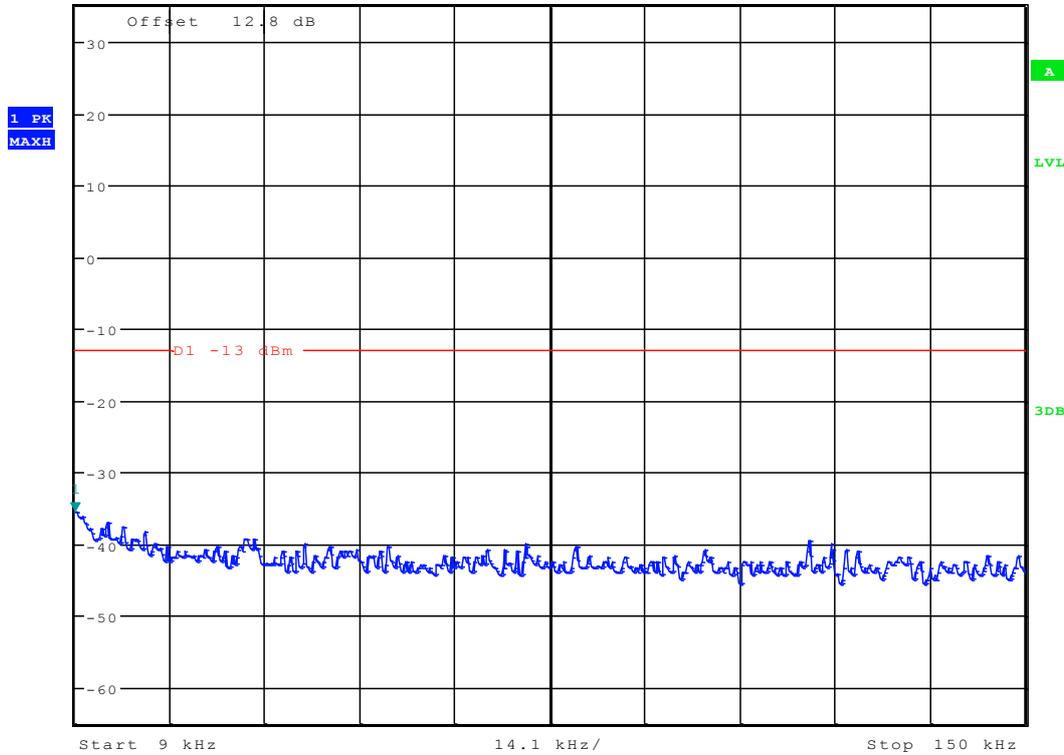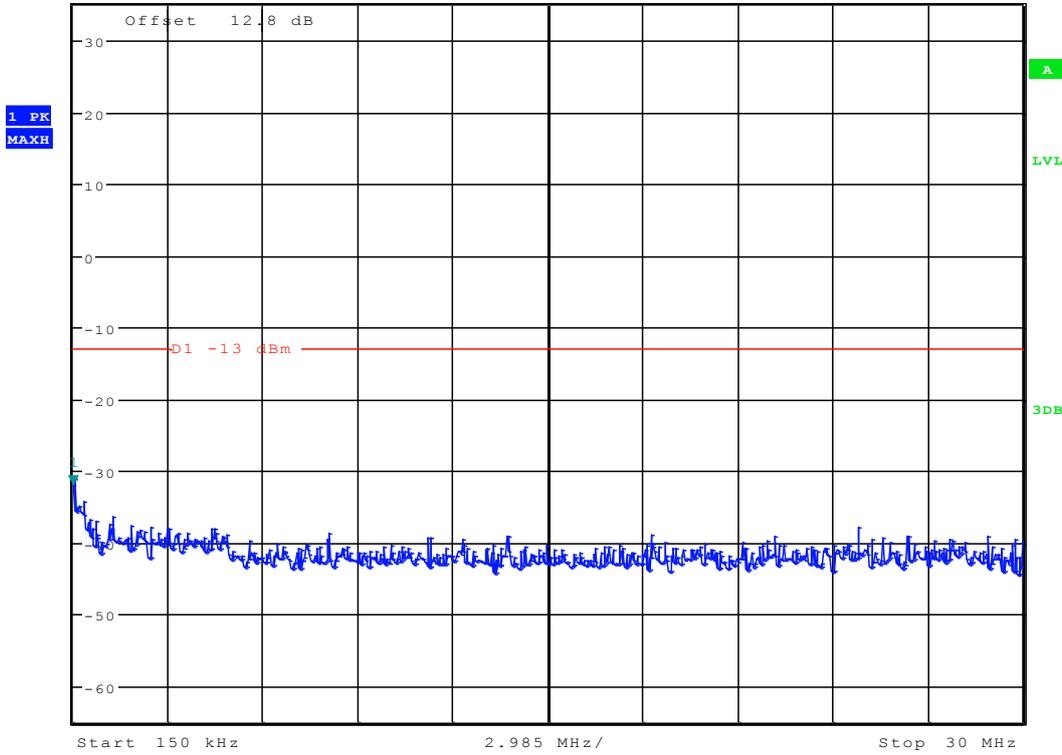


```
Date: 18.APR.2012  18:45:44
```

Date: 18.APR.2012 18:43:38

```
                                  * RBW 100 kHz        Marker 1 [T1 ]
                                  * VBW 300 kHz               24.86 dBm
    Ref  35 dBm        Att 50 dB   SWT 100 ms       707.756410256 MHz

        Offset  12.8 dB
     -30
                                                    A

     -20
1 PK
MAXH
     -10                                             LVL

      0

    --10
         D1 -13 dBm

    --20                                             3DB

    --30

    --40

    --50

    --60

  Start 30 MHz           97 MHz/              Stop 1 GHz
```

Date: 18.APR.2012 18:28:07

```
                                              * RBW  1 MHz        Marker 1 [T1 ]
                                              * VBW  3 MHz               -15.27 dBm
        Ref   35 dBm          Att  50 dB        SWT  70 ms        2.770032051 GHz

           Offset   12.8 dB
        -30                                                                          A

  1 PK -20                                                                          LVL
  MAXH

        -10

          0

        -10  D1 -13 dBm

                                                                                    3DB

        -30

        -40

        -50

        -60

        Start 1 GHz               1.175 GHz/                Stop  12.75 GHz
```
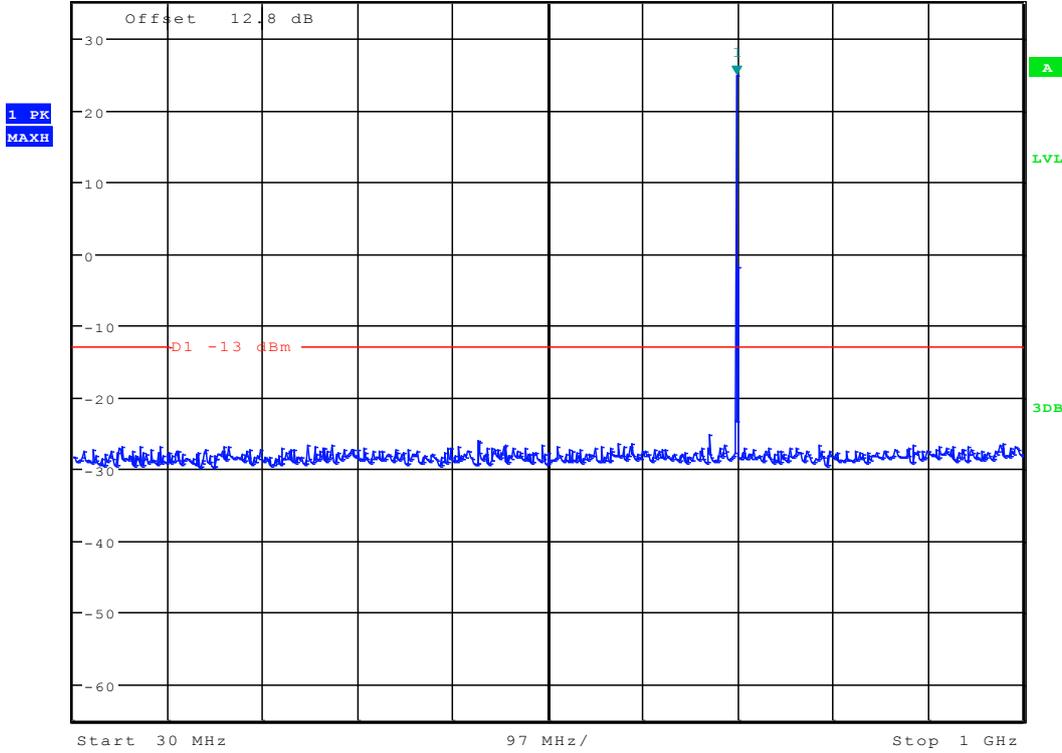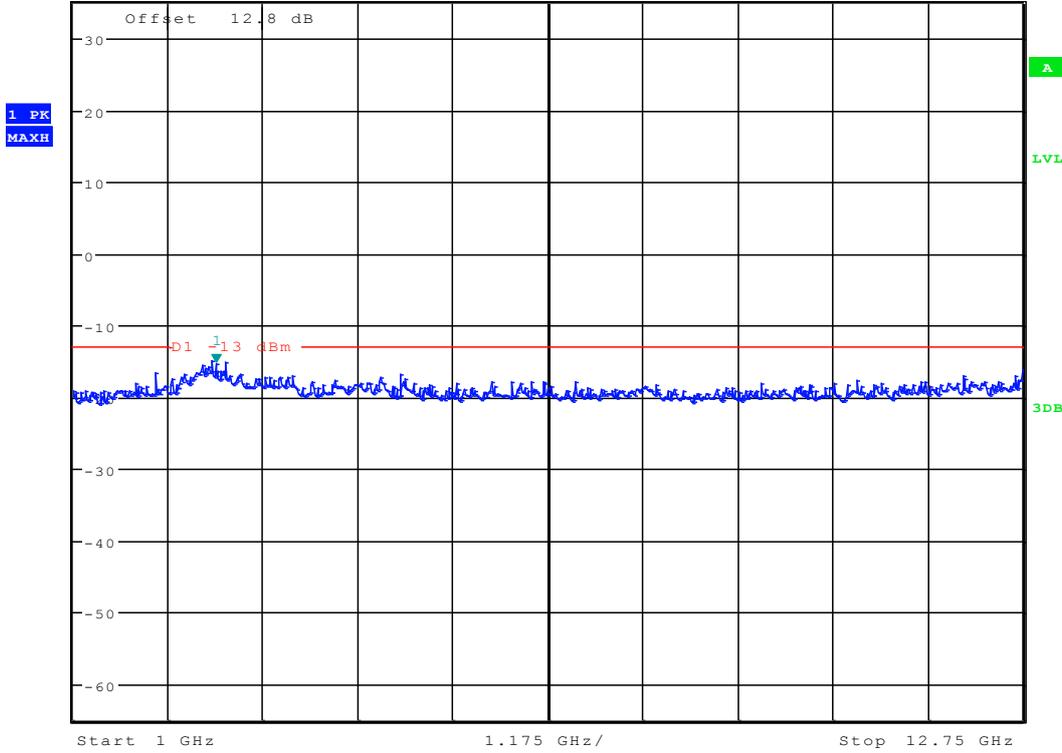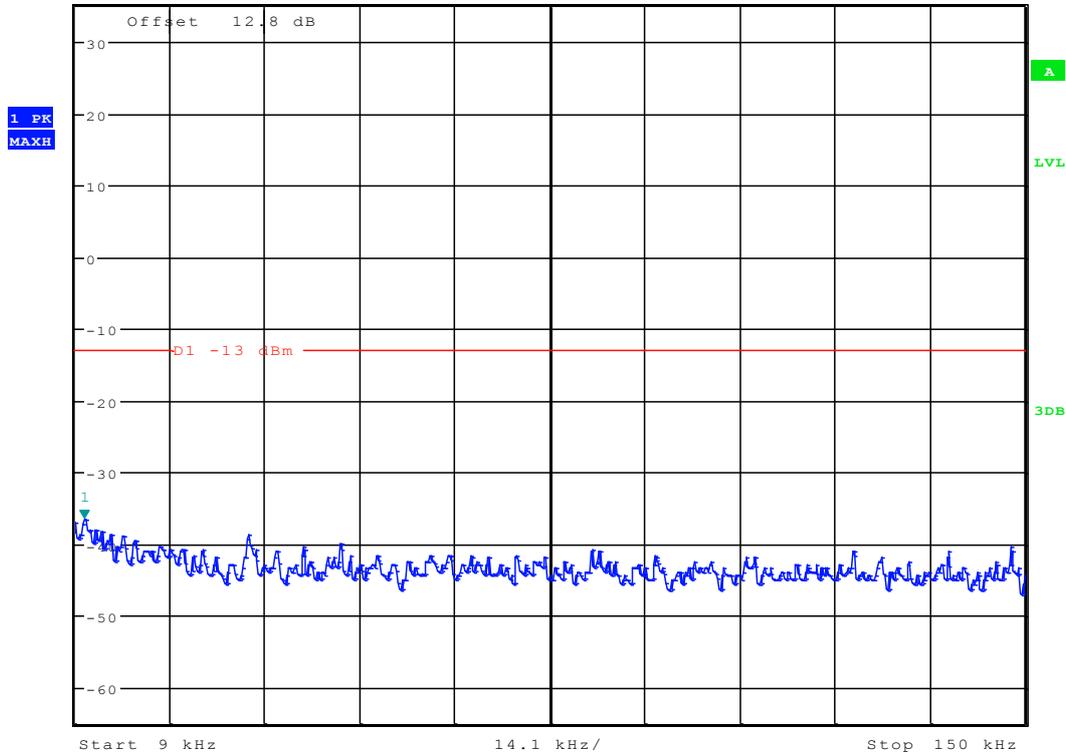
Date: 18.APR.2012 18:26:30

4.1.1.2.3 QPSK/full RBs

```
                              * RBW  1 kHz        Marker 1 [T1 ]
                              * VBW 10 kHz              -36.48 dBm
   Ref   35 dBm      Att  50 dB   SWT 145 ms    10.355769231 kHz

       Offset   12.8 dB                                         A
    -30

1 PK
MAXH  -20                                                       LVL
    -10

     -0

    --10
       D1 -13 dBm
    --20                                                        3DB

    --30
     1
    --40

    --50

    --60

   Start  9 kHz          14.1 kHz/          Stop  150 kHz
```
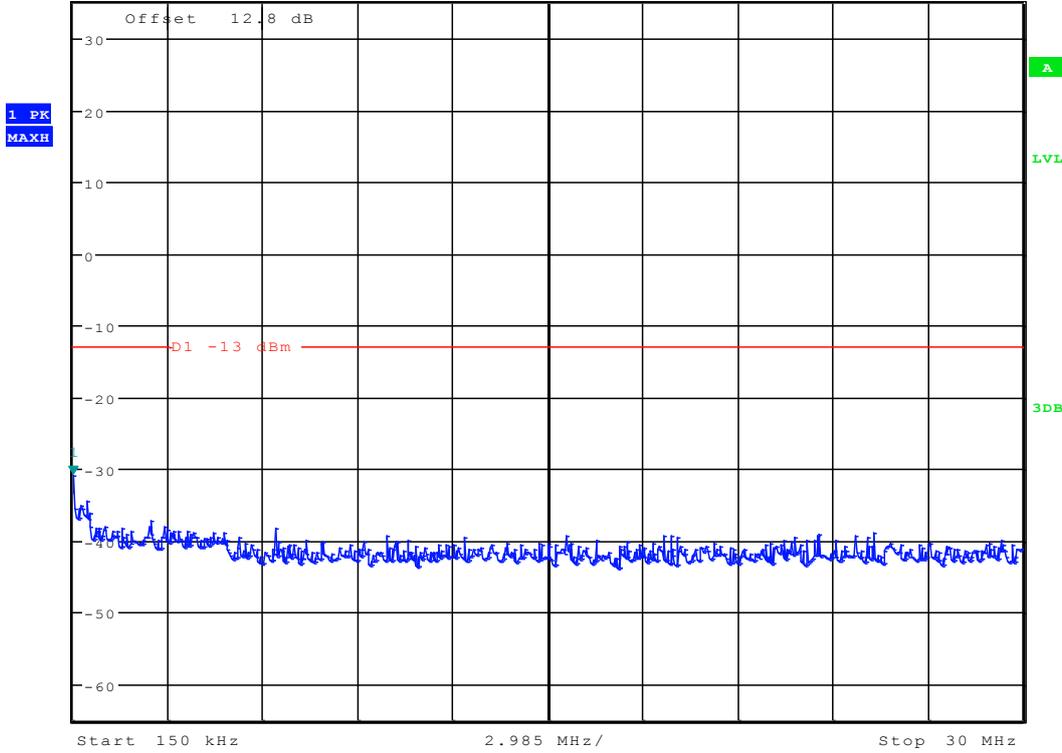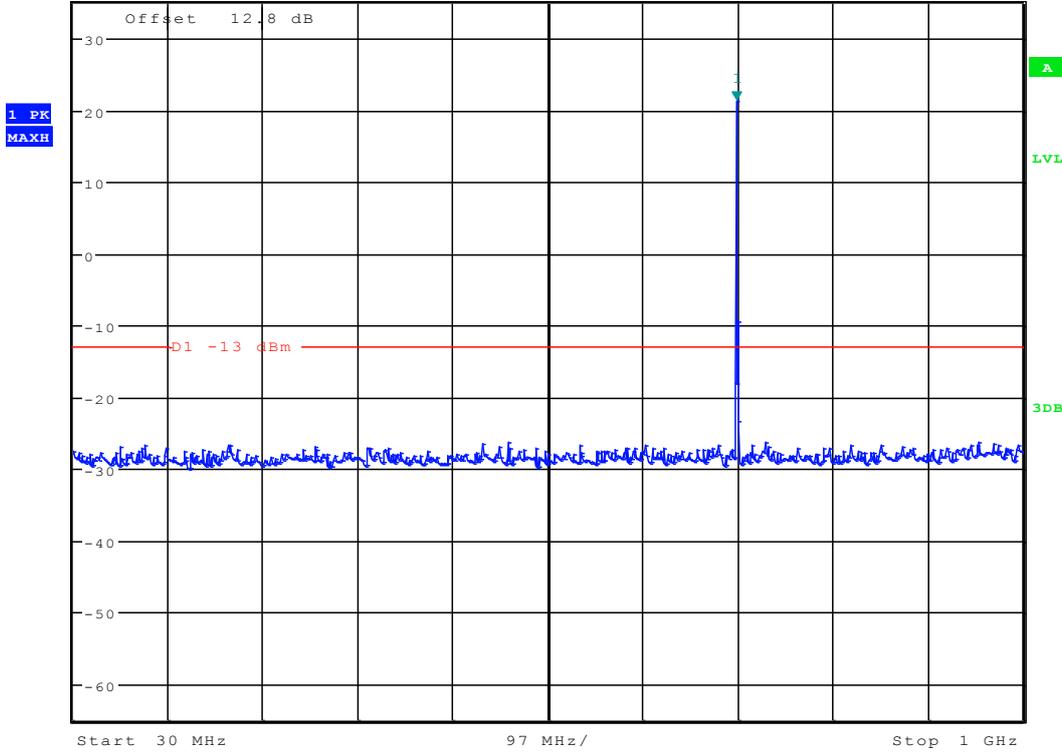
Date: 18.APR.2012 18:44:54

Date: 18.APR.2012 18:44:26

```
 *RBW  100 kHz      Marker 1 [T1 ]
 *VBW  300 kHz              21.19 dBm
Ref   35 dBm          Att  50 dB     SWT  100 ms      707.756410256 MHz
```

Offset   12.8 dB

Start 30 MHz   97 MHz/   Stop 1 GHz

Date: 18.APR.2012 18:27:31

```
                              * RBW  1 MHz          Marker 1 [T1 ]
                              * VBW  3 MHz                 -15.58 dBm
   Ref   35 dBm        Att  50 dB     SWT  70 ms      2.751201923 GHz

      Offset   12.8 dB                                              A
 -30

 1 PK
 MAXH -20                                                          LVL

   -10

    0

  -10
        D1  13 dBm                                                 3DB

  -30

  -40

  -50

  -60

 Start  1 GHz           1.175 GHz/           Stop  12.75 GHz
```
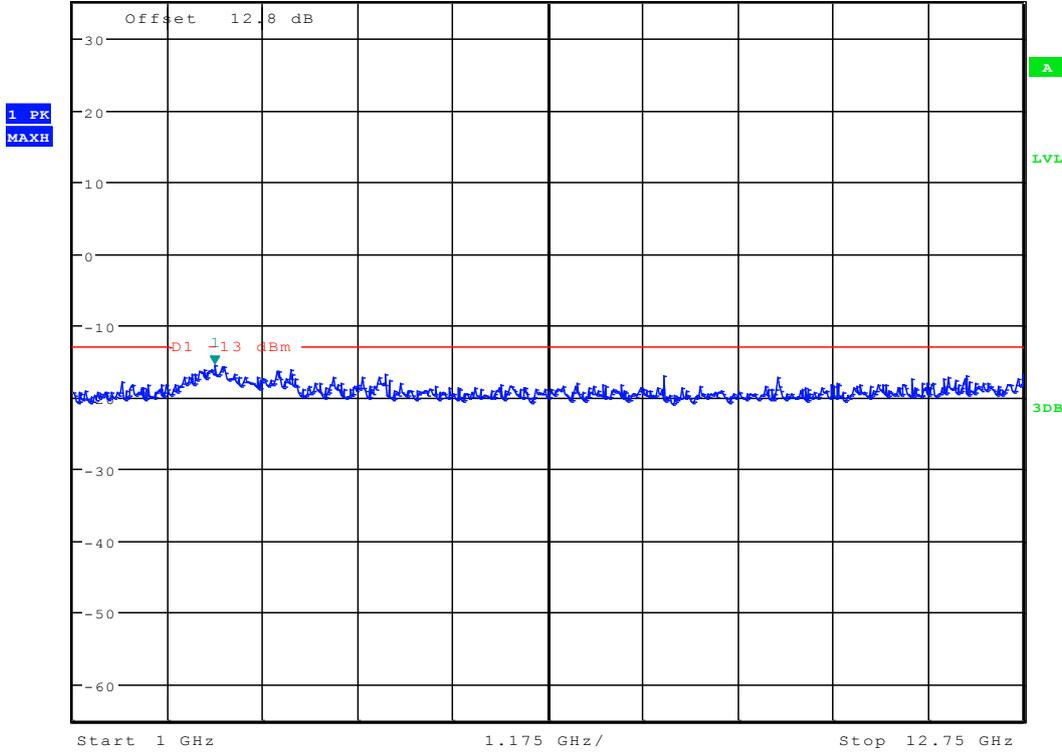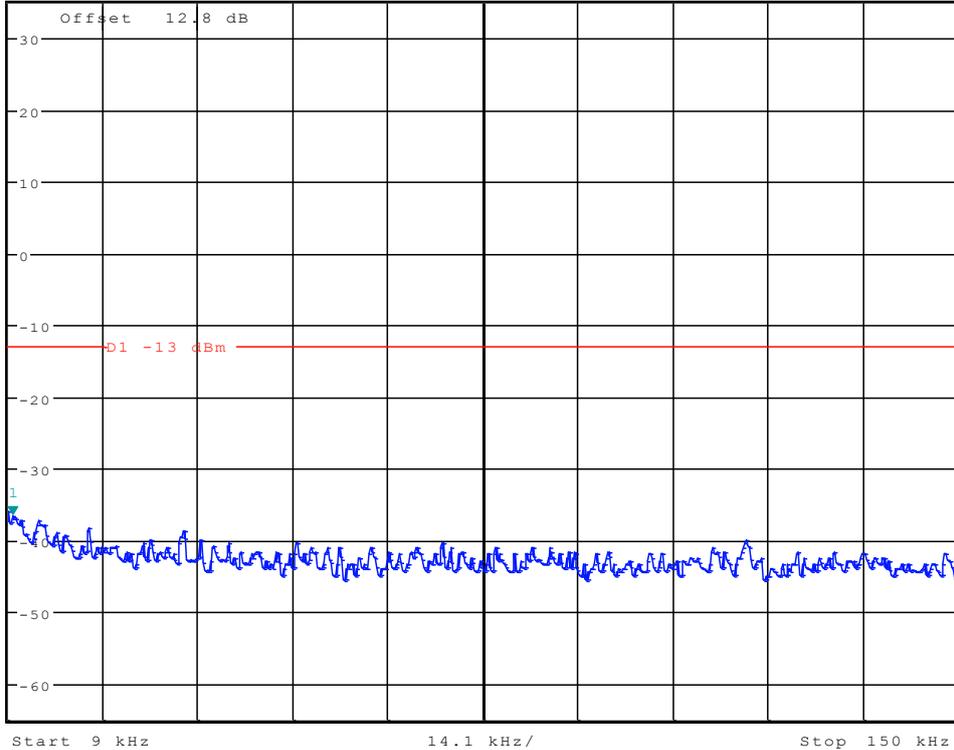
Date: 18.APR.2012 18:26:50

4.1.1.3 Channel = T

4.1.1.3.1 QPSK/1RBs /RB #0

Date: 18.APR.2012 18:47:13

```
                                    * RBW  10 kHz        Marker 1 [T1 ]
                                    * VBW  30 kHz                -31.97 dBm
       Ref   35 dBm       Att  50 dB     SWT  300 ms     150.000000000 kHz
```
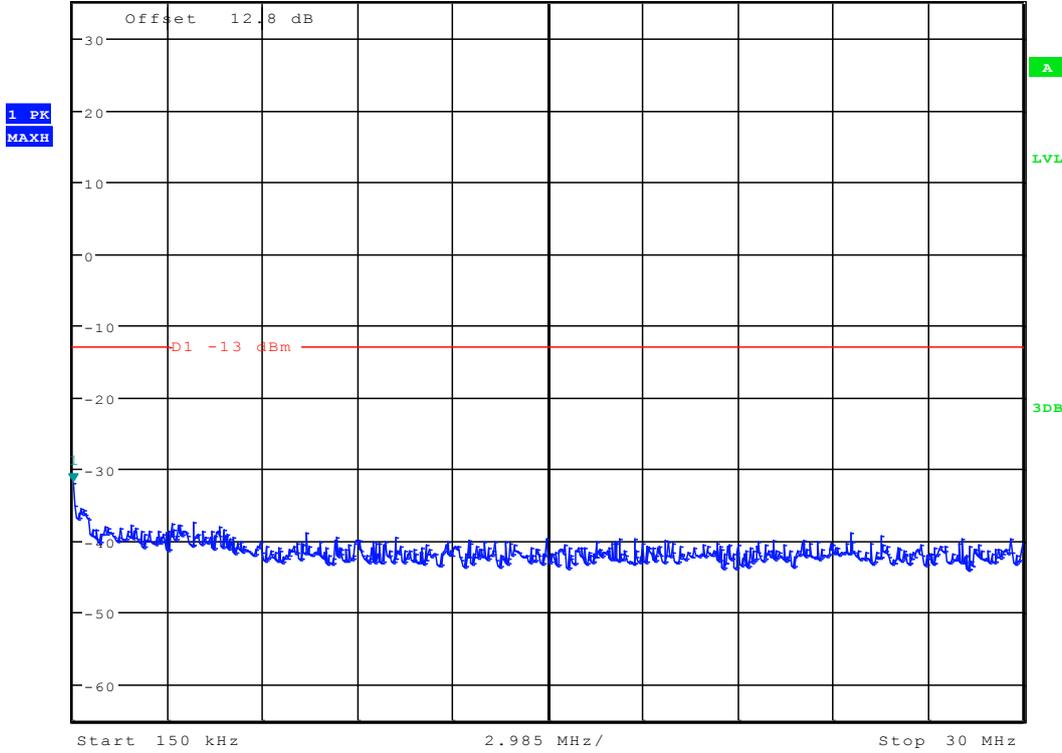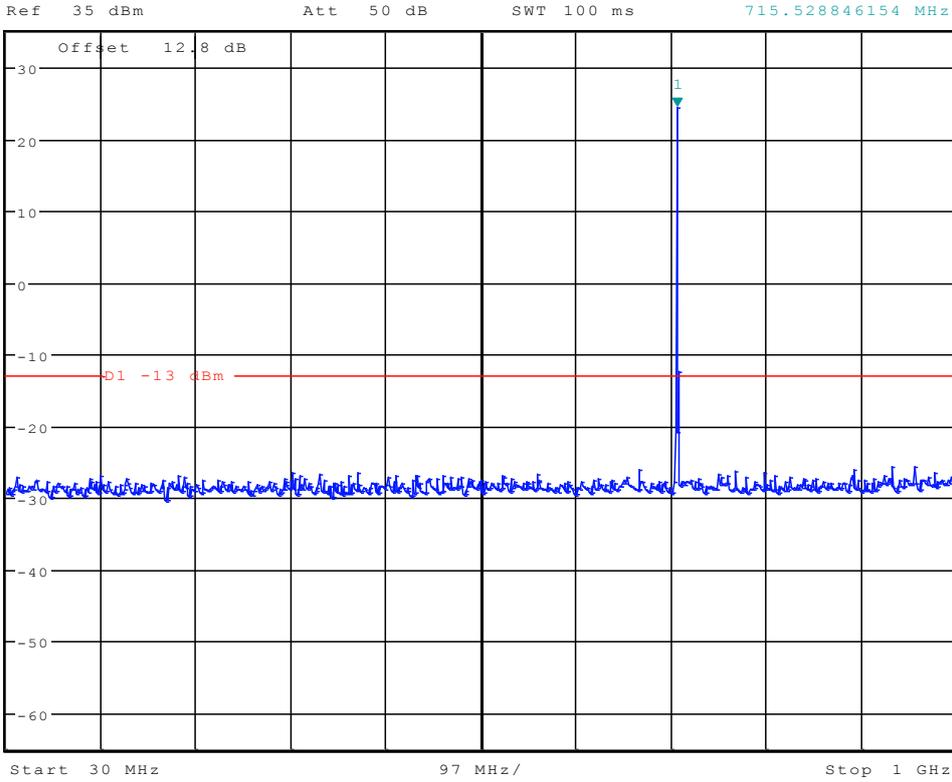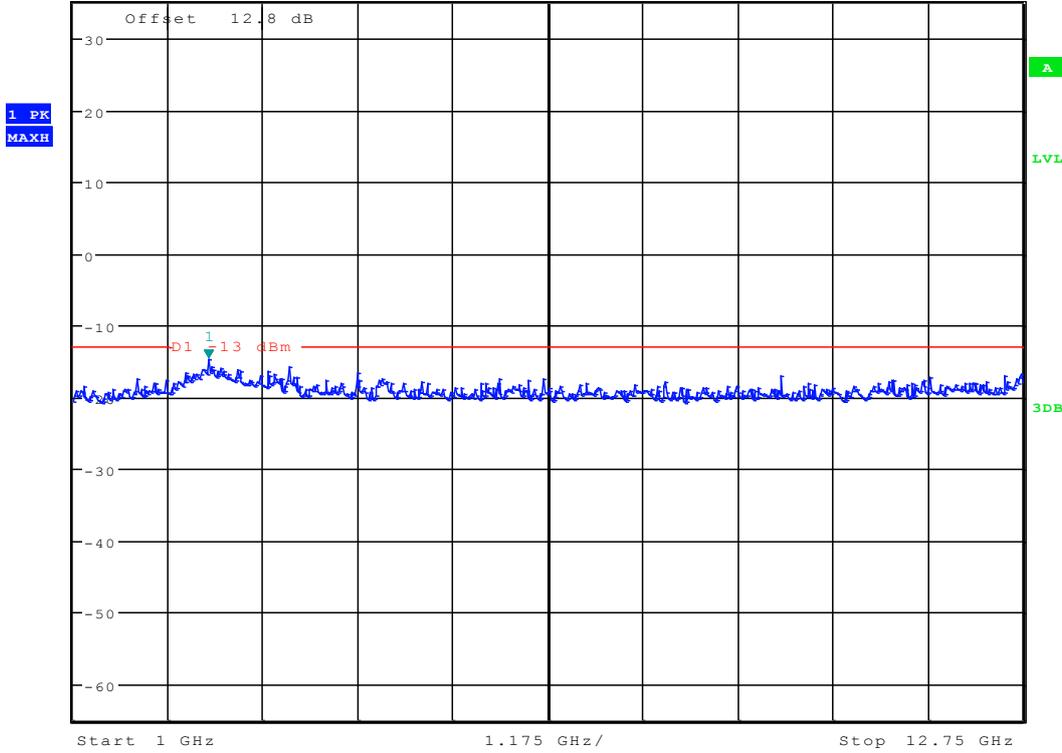


```
Start  150 kHz              2.985 MHz/              Stop  30 MHz
```

Date: 18.APR.2012   18:48:35

```
                                      * RBW  100 kHz      Marker 1 [T1 ]
                                      * VBW  300 kHz                24.41 dBm
          Ref   35 dBm        Att  50 dB    SWT  100 ms    715.528846154 MHz
```



```
Start  30 MHz                      97 MHz/                       Stop  1 GHz
```

Date: 18.APR.2012 18:49:50

Date: 18.APR.2012 18:51:23

4.1.1.3.2 QPSK/1RBs /RB #max

Date: 18.APR.2012 18:46:49

Date: 18.APR.2012 18:48:54

```
                                    * RBW  100 kHz      Marker 1 [T1 ]
                                    * VBW  300 kHz              23.28 dBm
        Ref   35 dBm          Att   50 dB    SWT  100 ms    717.083333333 MHz

        Offset   12.8 dB
   -30
                                                        1                    A
   -20
 1 PK
 MAXH
   -10                                                                      LVL

    0

  -10
        D1 -13 dBm

  -20
                                                                            3DB
  -30

  -40

  -50

  -60

        Start  30 MHz            97 MHz/              Stop  1 GHz
```
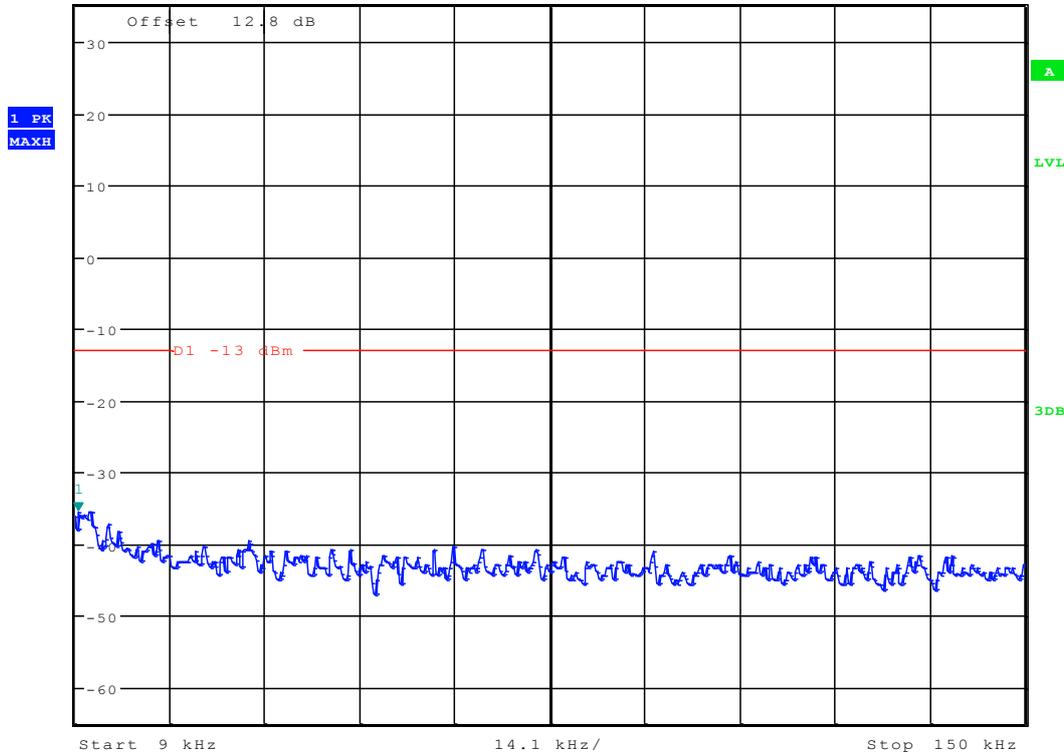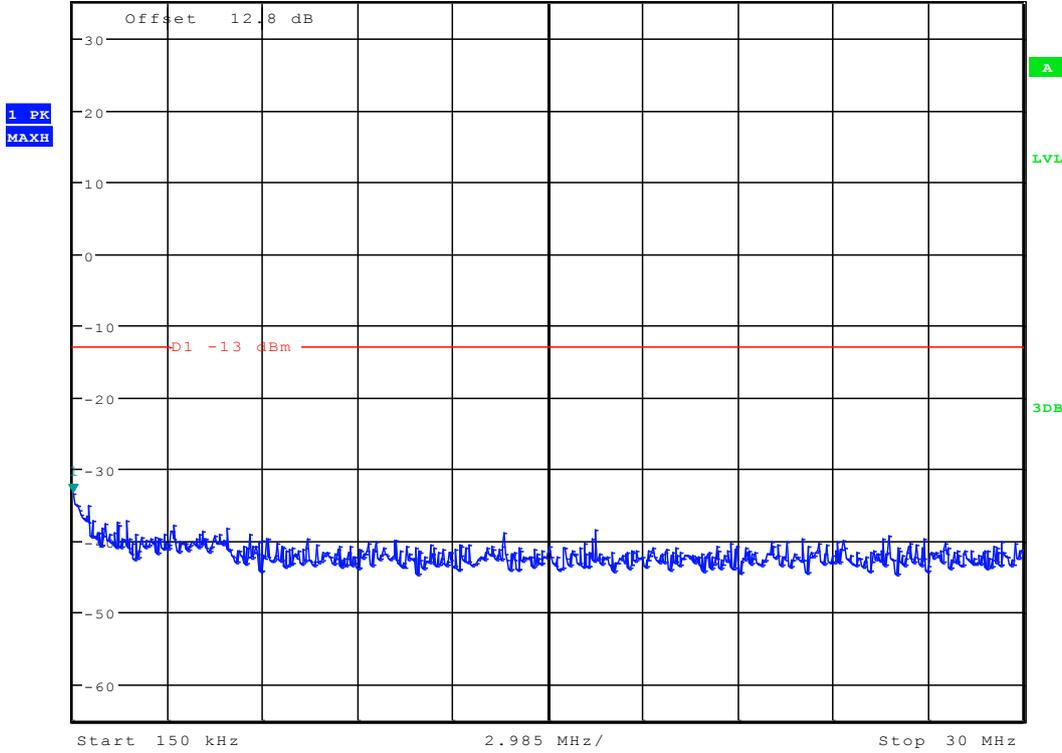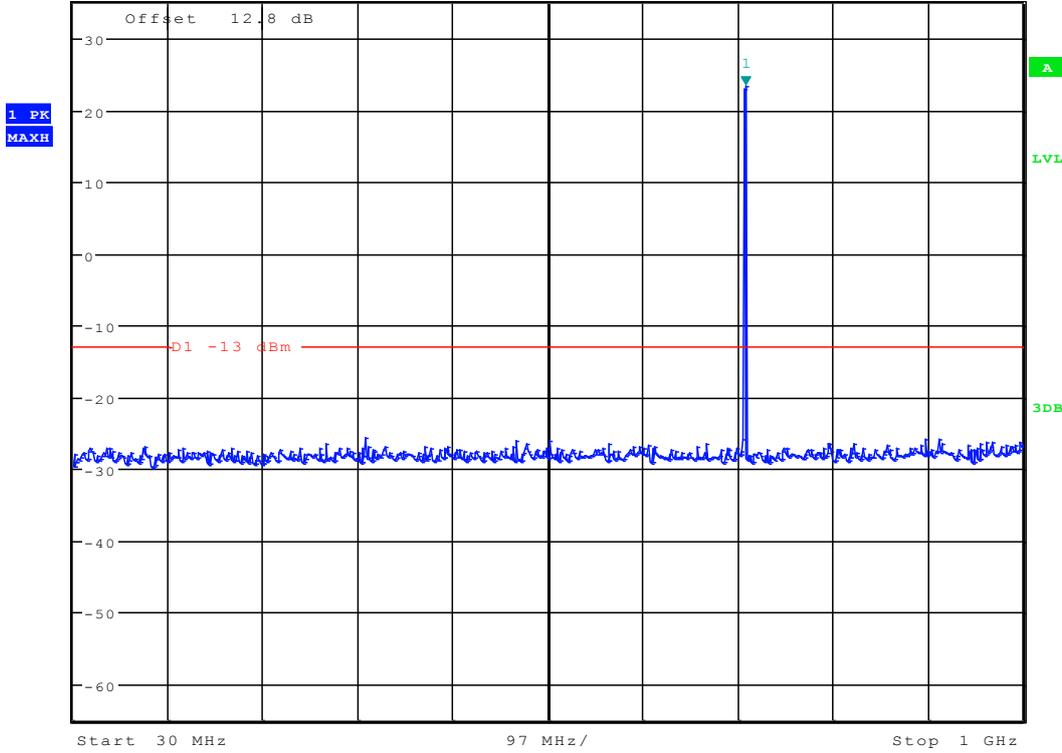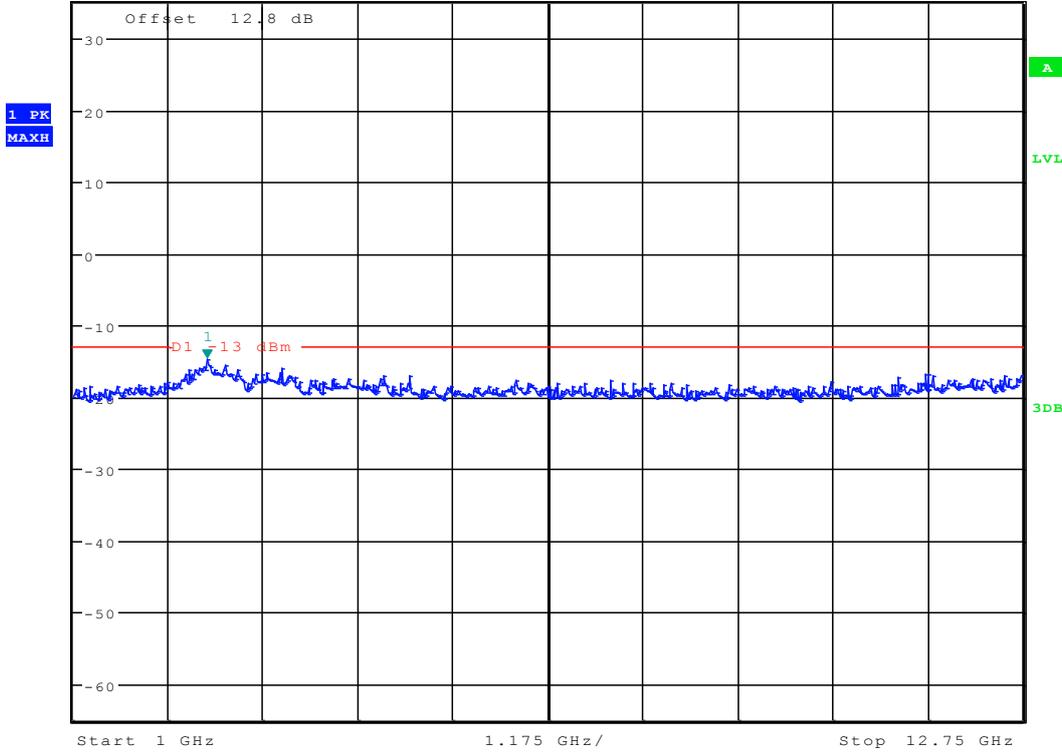
Date: 18.APR.2012 18:49:36

```
R/S

                                        * RBW  1 MHz        Marker 1 [T1 ]
                                        * VBW  3 MHz               -14.73 dBm
       Ref   35 dBm        Att  50 dB    SWT  70 ms         2.657051282 GHz

           Offset   12.8 dB
        -30                                                                    A
1 PK
MAXH    -20                                                                   LVL

        -10

         0

        -10
             D1   13 dBm
                                                                             3DB

        -30

        -40

        -50

        -60

       Start  1 GHz              1.175 GHz/              Stop  12.75 GHz
```
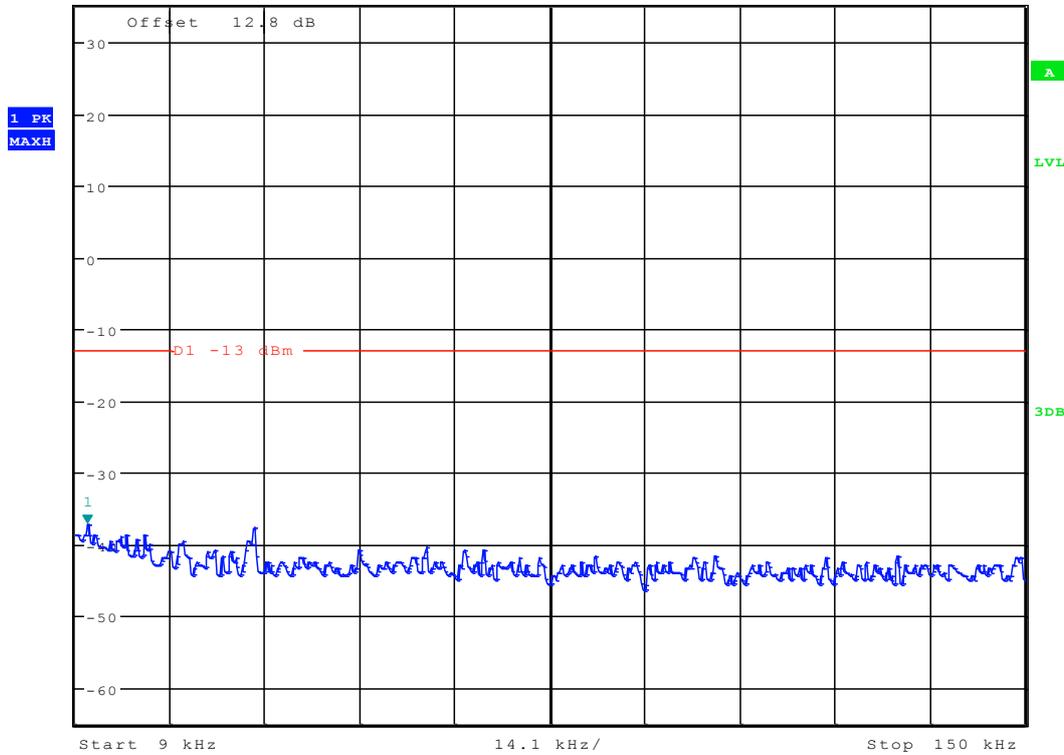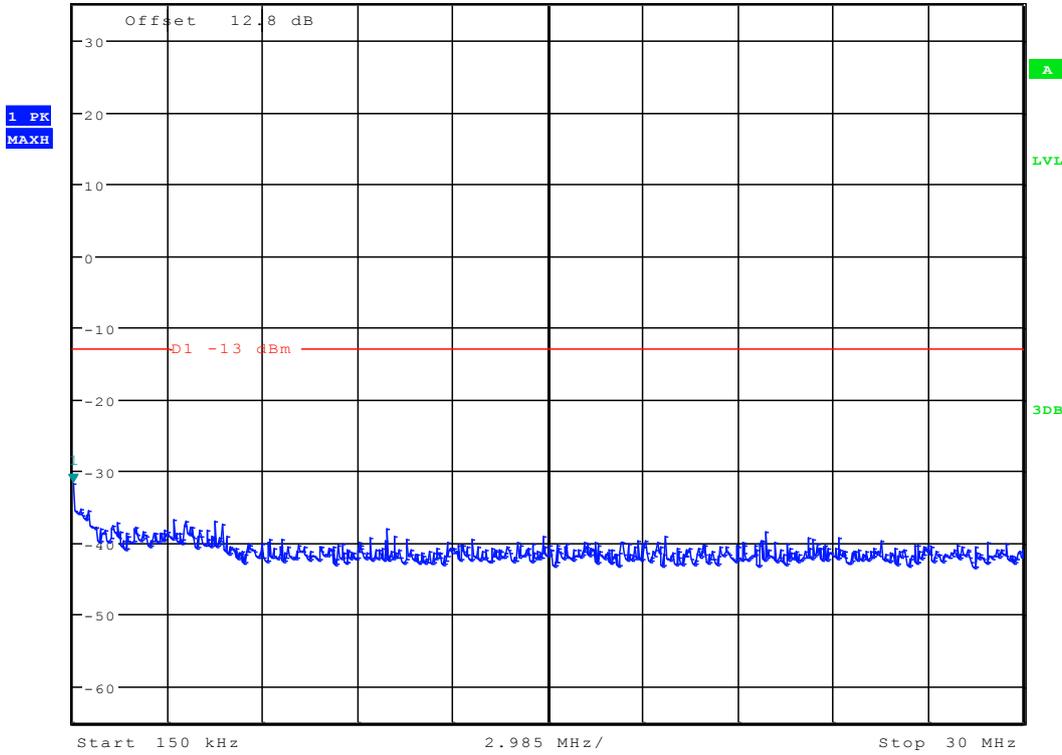
Date: 18.APR.2012 18:50:52

4.1.1.3.3 QPSK/full RBs


```
                                      * RBW  1 kHz        Marker 1 [T1 ]
                                      * VBW  10 kHz                  -37.18 dBm
        Ref   35 dBm         Att   50 dB    SWT  145 ms    10.807692308 kHz

            Offset   12.8 dB
          30

          20

          10

           0

         -10      D1 -13 dBm

         -20

         -30
            1

         -50

         -60

        Start  9 kHz              14.1 kHz/              Stop  150 kHz
```
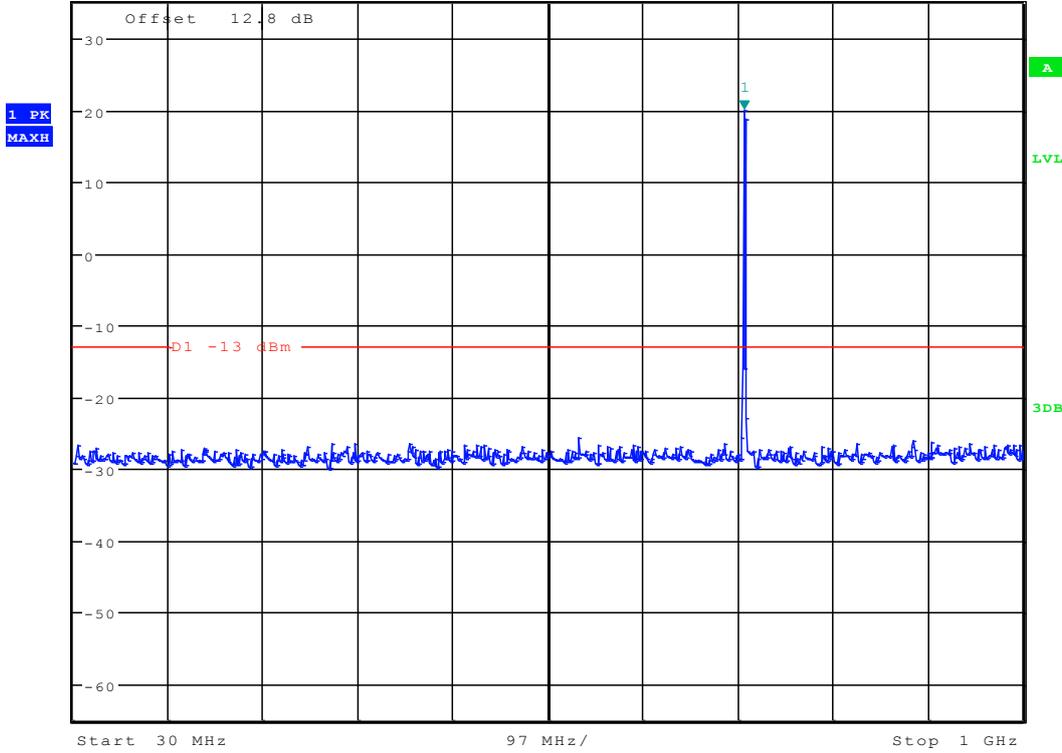
Date: 18.APR.2012 18:47:35

Date: 18.APR.2012 18:48:13

```
                                    * RBW  100 kHz      Marker 1 [T1 ]
                                    * VBW  300 kHz              19.88 dBm
        Ref   35 dBm        Att  50 dB    SWT  100 ms    715.528846154 MHz
```
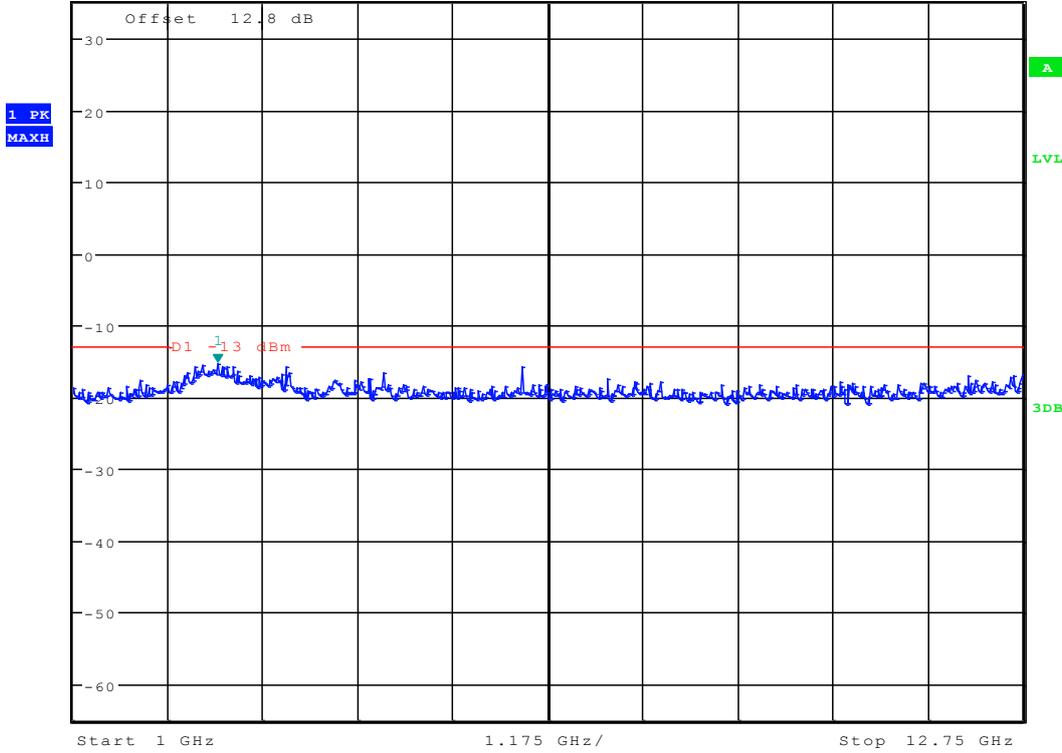


```
Date: 18.APR.2012  18:50:09
```

```
                              * RBW  1 MHz        Marker 1 [T1 ]
                              * VBW  3 MHz             -15.34 dBm
    Ref   35 dBm      Att  50 dB    SWT  70 ms    2.788862179 GHz

      Offset   12.8 dB
   30                                                            A

1 PK
MAXH 20                                                          LVL

   10

    0

  -10
       D1  -13 dBm                                               3DB
  -20

  -30

  -40

  -50

  -60

 Start  1 GHz           1.175 GHz/            Stop  12.75 GHz
```
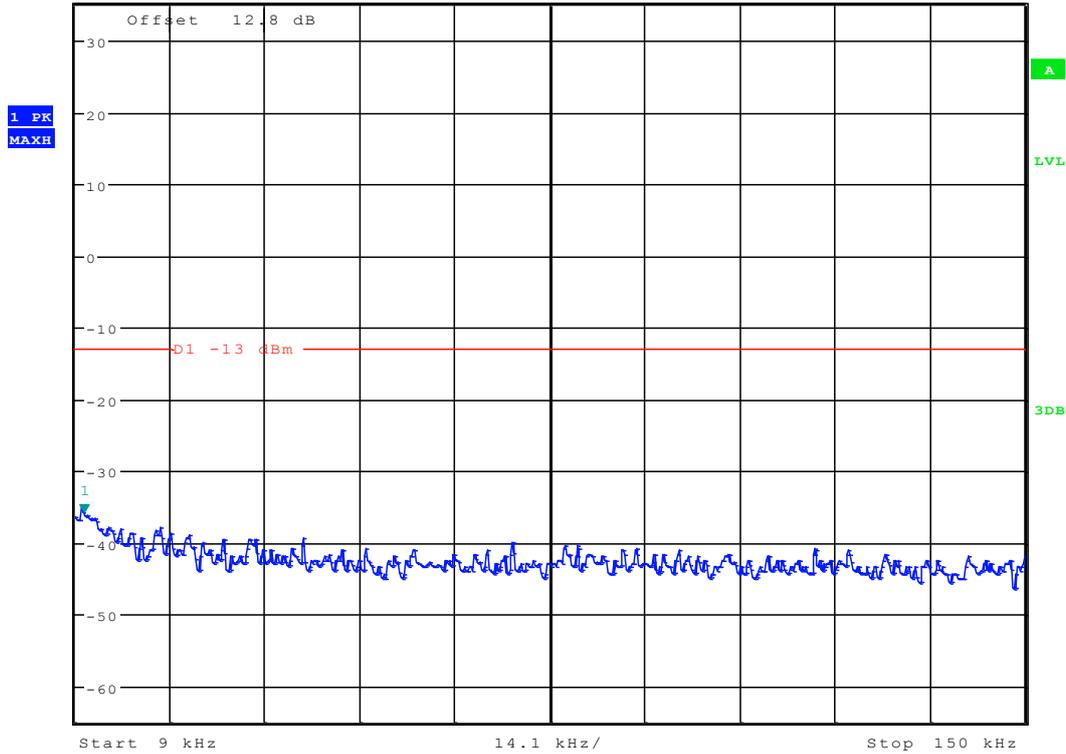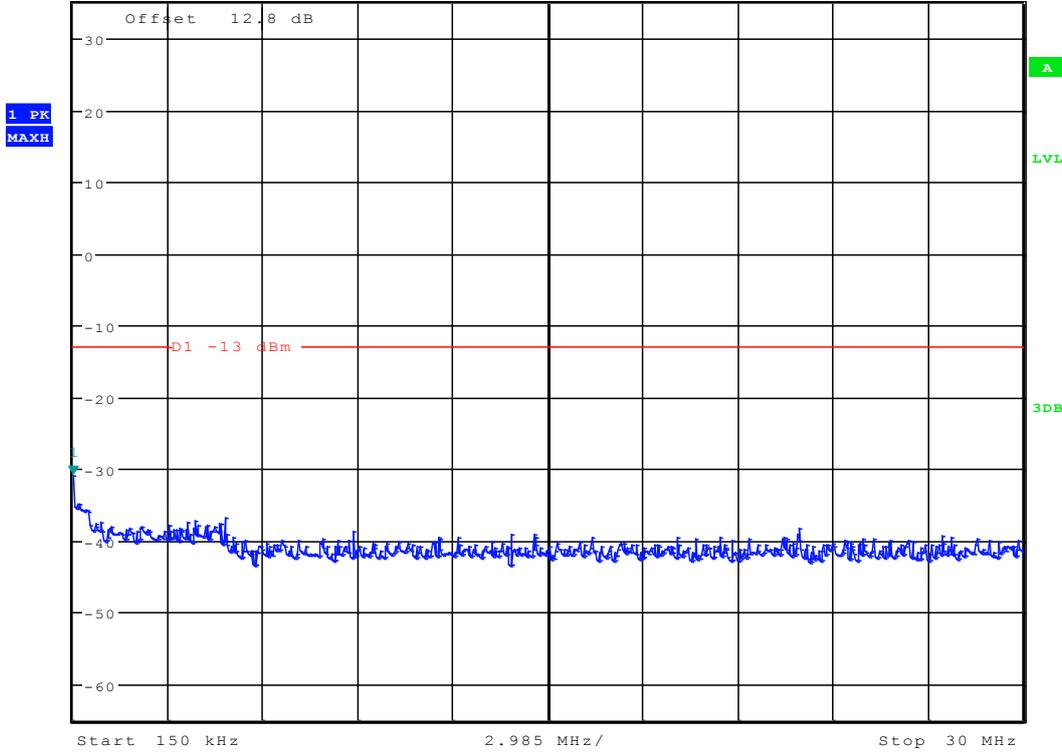
Date: 18.APR.2012 18:51:39

4.1.2 Channel Bandwidth = 5 MHz

4.1.2.1 Channel = B

4.1.2.1.1 QPSK/1RBs /RB #0

Date: 18.APR.2012 19:03:52

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```
                                    * RBW  10 kHz        Marker 1 [T1 ]
                                    * VBW  30 kHz                  -30.80 dBm
        Ref   35 dBm      Att  50 dB   SWT 300 ms     150.000000000 kHz
```
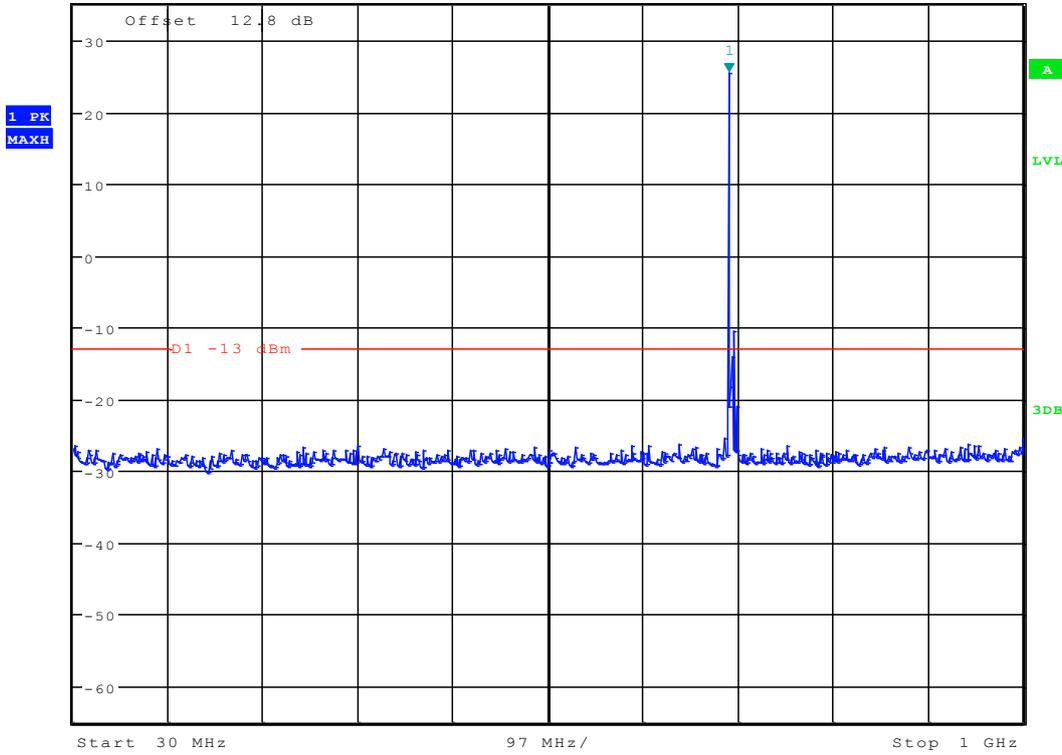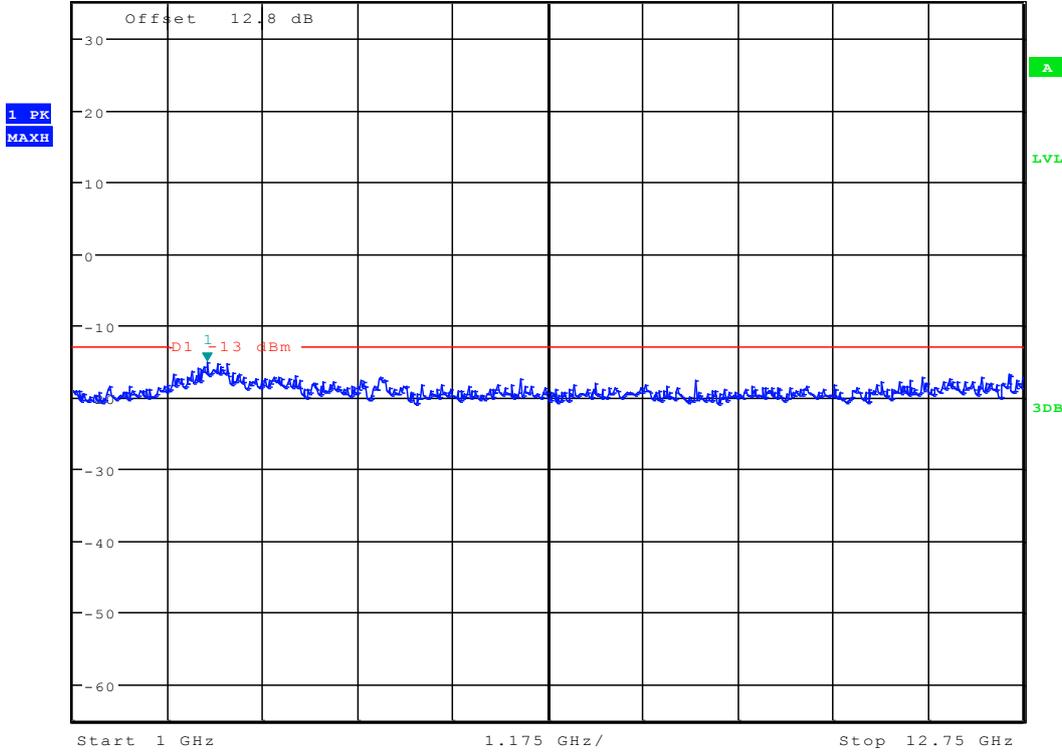


```
        Start  150 kHz            2.985 MHz/              Stop  30 MHz
```

Date: 23.APR.2012 11:47:37

Date: 18.APR.2012 19:00:39

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```
                                        * RBW  1 MHz        Marker 1 [T1 ]
                                        * VBW  3 MHz               -15.20 dBm
        Ref   35 dBm         Att  50 dB   SWT  70 ms      2.657051282 GHz
```
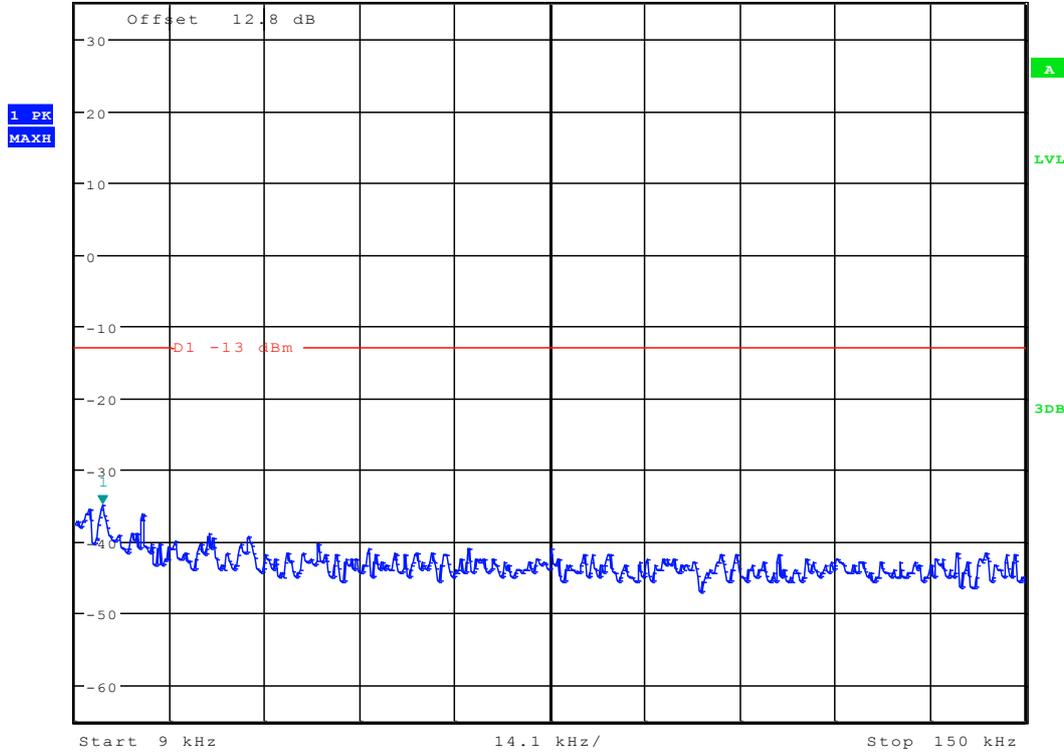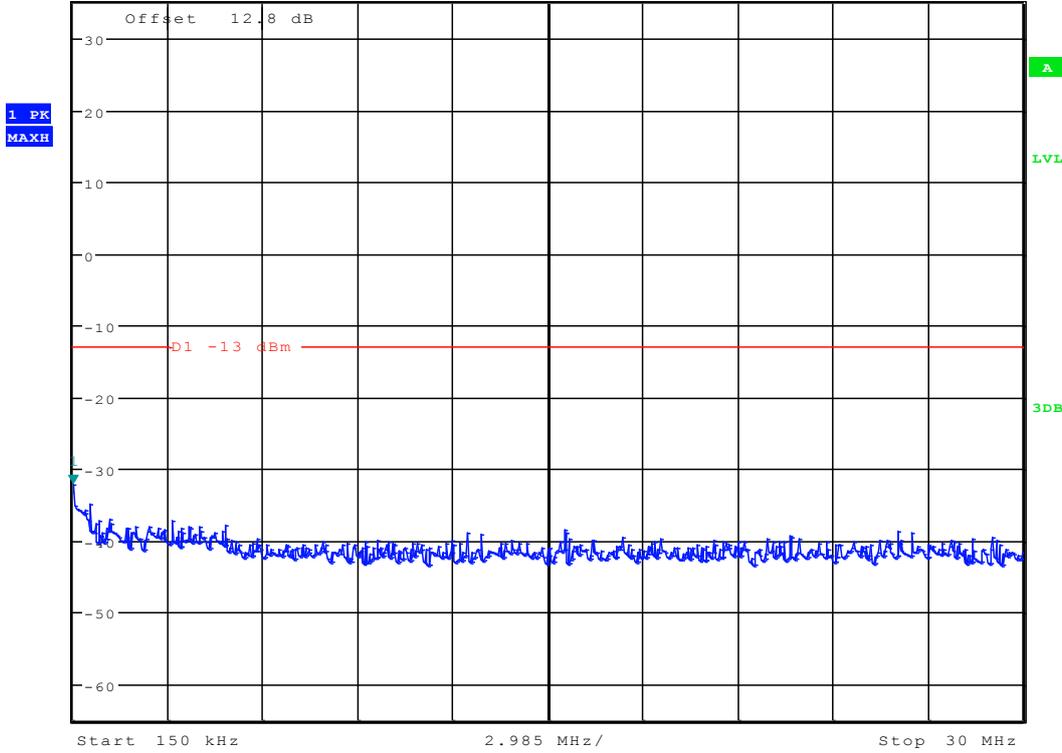


```
Start  1 GHz              1.175 GHz/              Stop  12.75 GHz
```

Date: 18.APR.2012 18:58:22

4.1.2.1.2 QPSK/1RBs /RB #max

Date: 18.APR.2012 19:03:29

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```
                                    * RBW  10 kHz      Marker 1 [T1 ]
                                    * VBW  30 kHz                -32.14 dBm
      Ref   35 dBm       Att  50 dB   SWT 300 ms      150.000000000 kHz
```
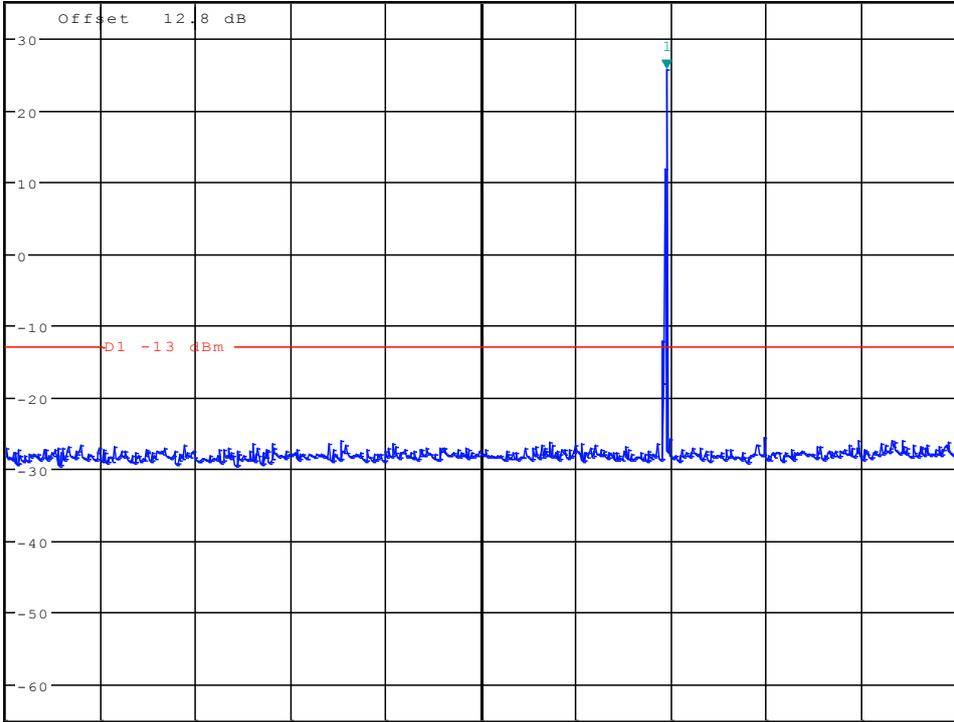
Date: 23.APR.2012 11:48:06

Date: 18.APR.2012 19:00:16

Report No:
SYBH(Z-RF)014042012-2003

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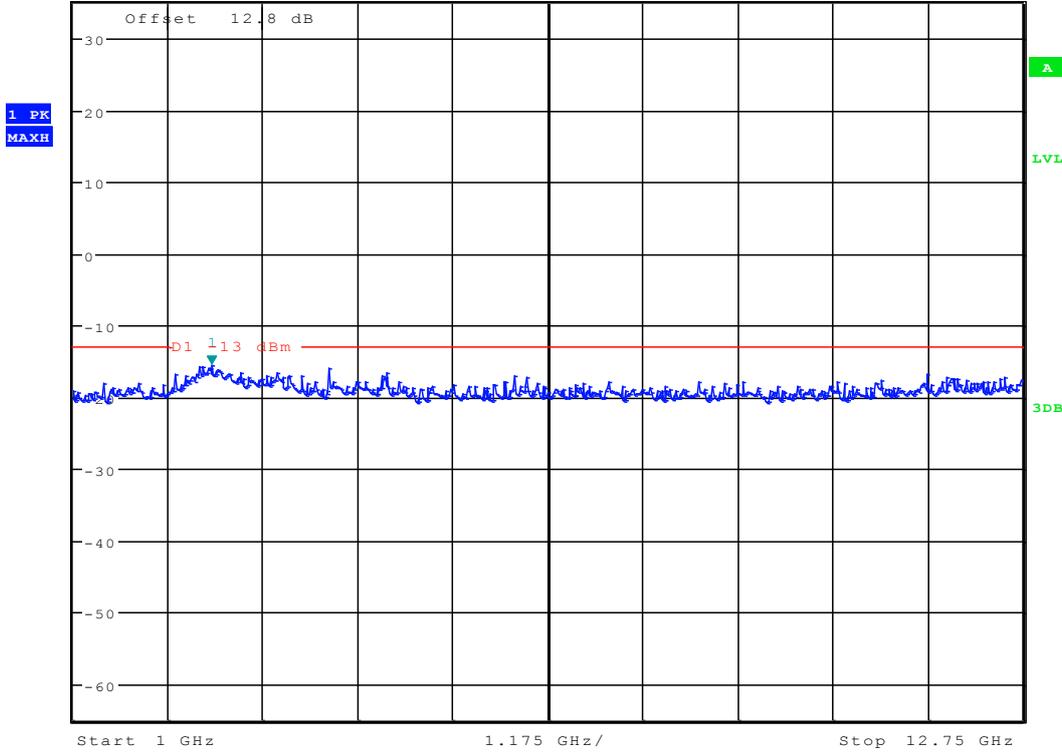
Date: 18.APR.2012 18:58:44

4.1.2.1.3 QPSK/full RBs

```
                                    * RBW  1 kHz        Marker 1 [T1 ]
                                    * VBW  10 kHz                -35.58 dBm
       Ref   35 dBm          Att  50 dB    SWT  145 ms     9.000000000 kHz

          Offset   12.8 dB                                              A
       -30
                                                                       LVL
1 PK  -20
MAXH
       -10

        0

       -10  D1 -13 dBm
                                                                       3DB
       -20

       -30

       -40

       -50

       -60

       Start  9 kHz              14.1 kHz/            Stop  150 kHz
```
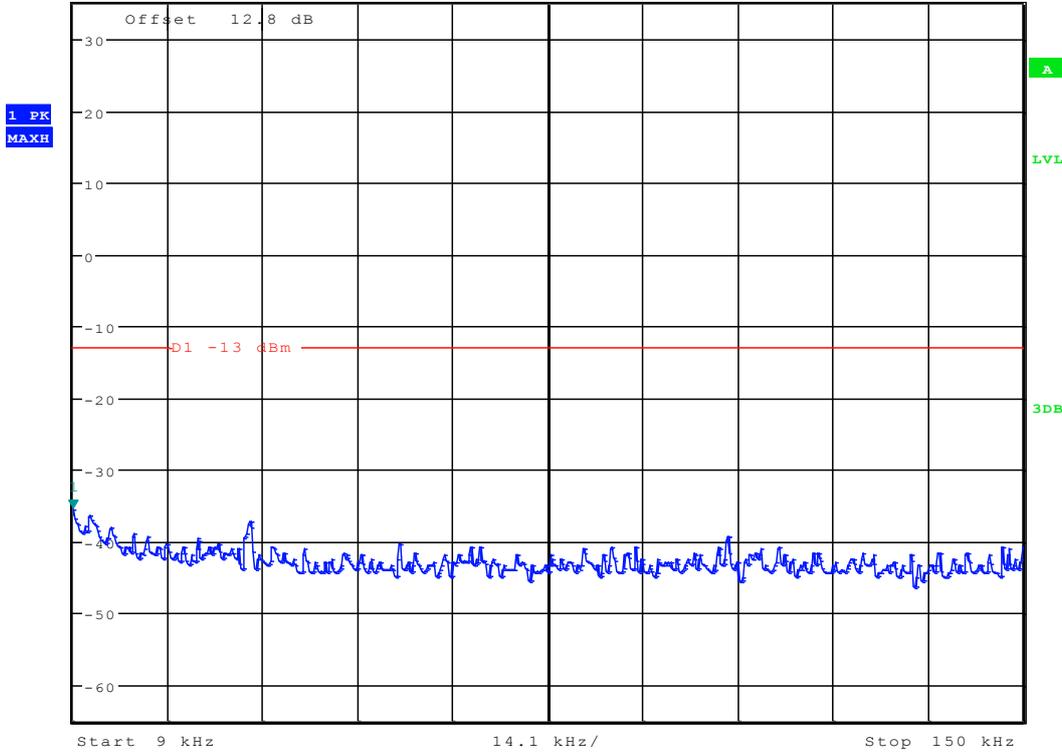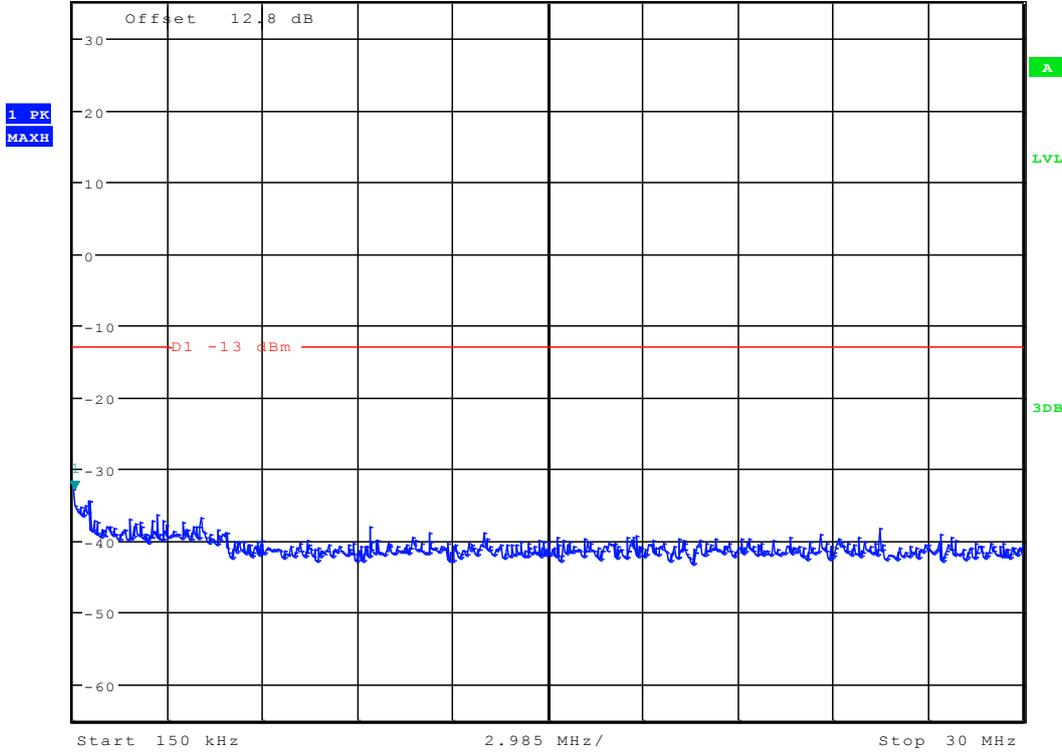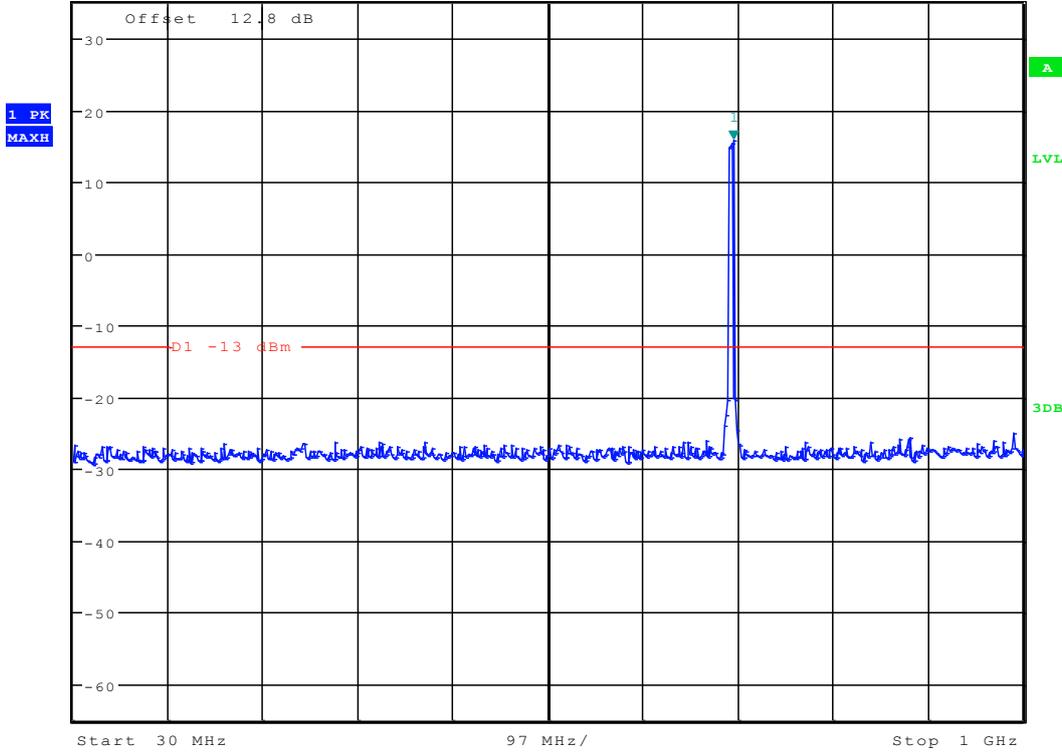
Date: 18.APR.2012 19:04:18

Offset 12.8 dB

Ref 35 dBm   Att 50 dB   SWT 300 ms

* RBW 10 kHz   Marker 1 [T1]
* VBW 30 kHz   -32.93 dBm
SWT 300 ms   197.836538462 kHz

1 PK
MAXH

A

LVL

D1 -13 dBm

3DB

Start 150 kHz   2.985 MHz/   Stop 30 MHz

Date: 23.APR.2012 11:47:09

Date: 18.APR.2012 19:01:11

Date: 18.APR.2012 18:57:46

4.1.2.2 Channel = M

4.1.2.2.1 QPSK/1RBs /RB #0

Date: 18.APR.2012 19:05:54

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Offset 12.8 dB

* RBW 10 kHz
* VBW 30 kHz
SWT 300 ms

Ref 35 dBm   Att 50 dB

Marker 1 [T1]
-31.31 dBm
150.000000000 kHz

1 PK
MAXH

A

LVL

D1 -13 dBm

3DB

Start 150 kHz   2.985 MHz/   Stop 30 MHz

Date: 18.APR.2012 19:07:54

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Page161, Total219
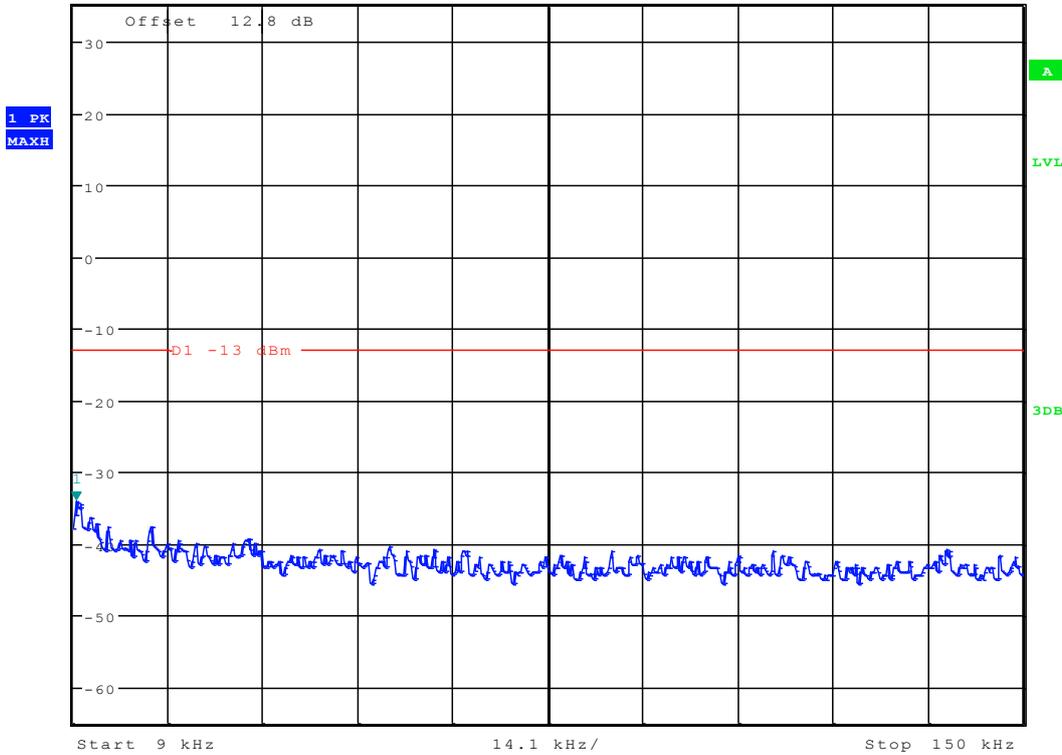
```
                                      * RBW  100 kHz      Marker 1 [T1 ]
                                      * VBW  300 kHz               24.86 dBm
     Ref   35 dBm         Att  50 dB    SWT  100 ms      706.201923077 MHz
```
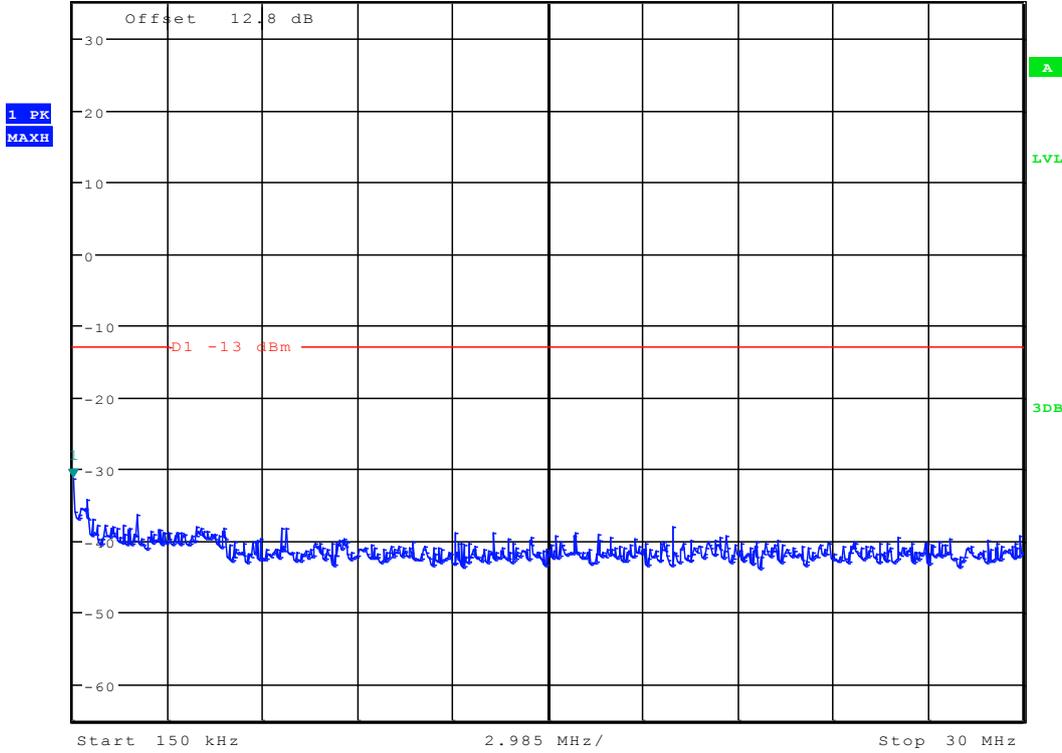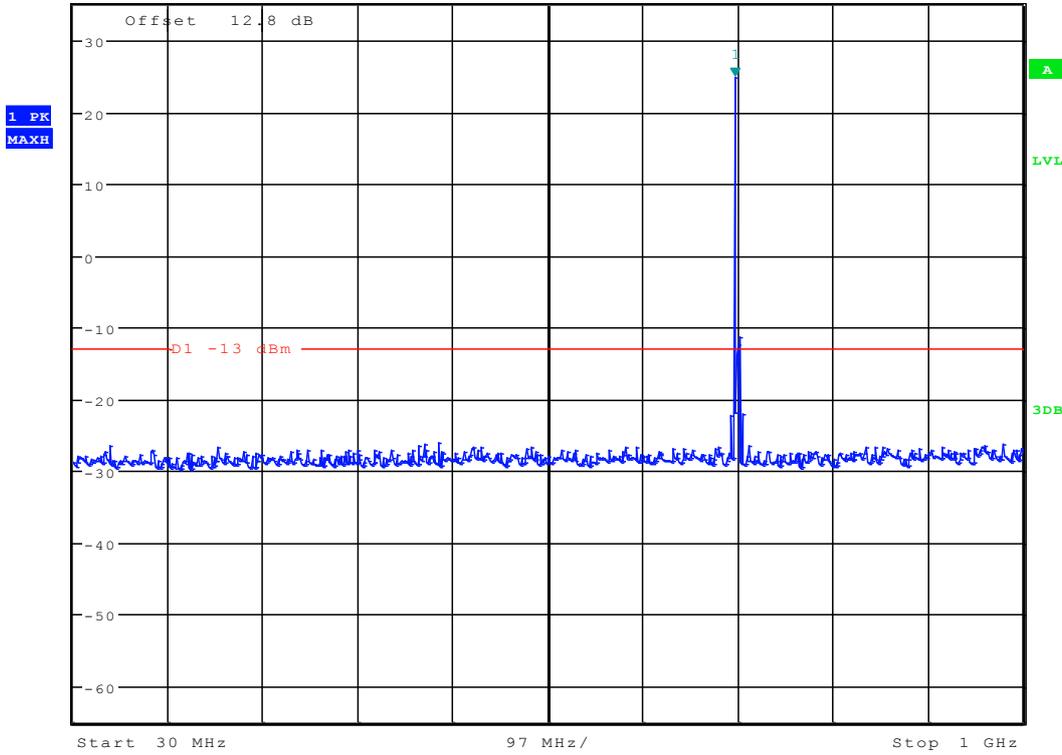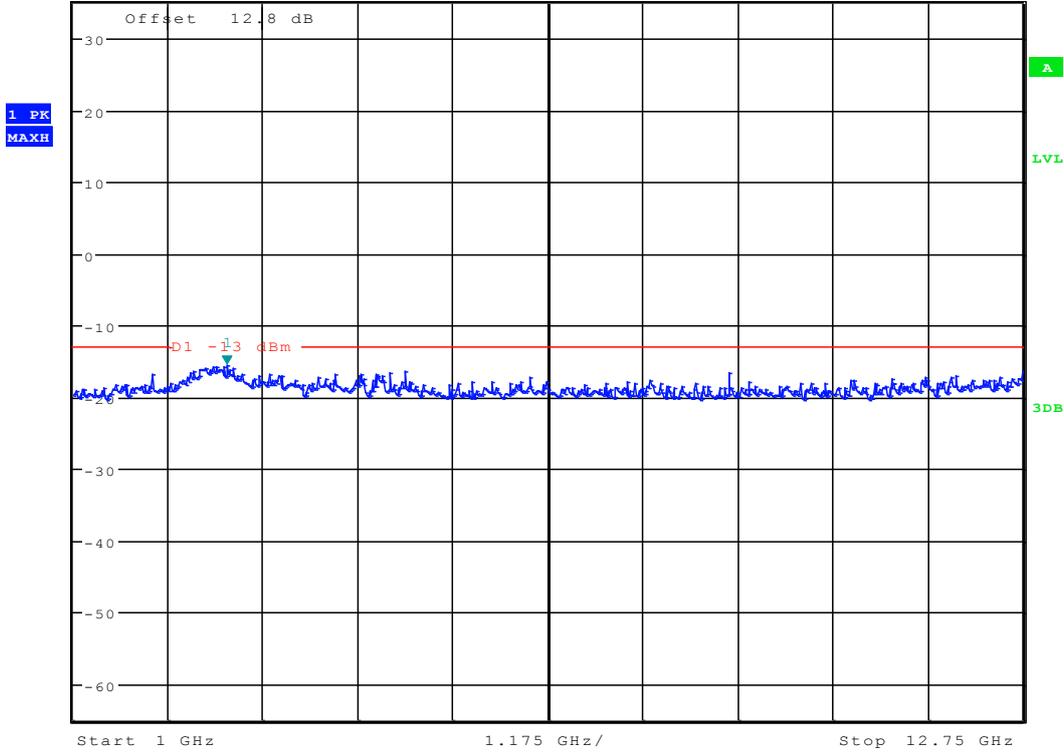


```
     Offset  12.8 dB
   -30                                                                    A

1 PK
MAXH -20                                                                  LVL
   -10

     0

   -10  D1 -13 dBm

   -20                                                                    3DB

   -30

   -40

   -50

   -60

   Start  30 MHz              97 MHz/              Stop  1 GHz
```

Date: 18.APR.2012 19:09:15

```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  3 MHz                    -15.59 dBm
       Ref   35 dBm        Att  50 dB     SWT  70 ms    2.901842949 GHz
```
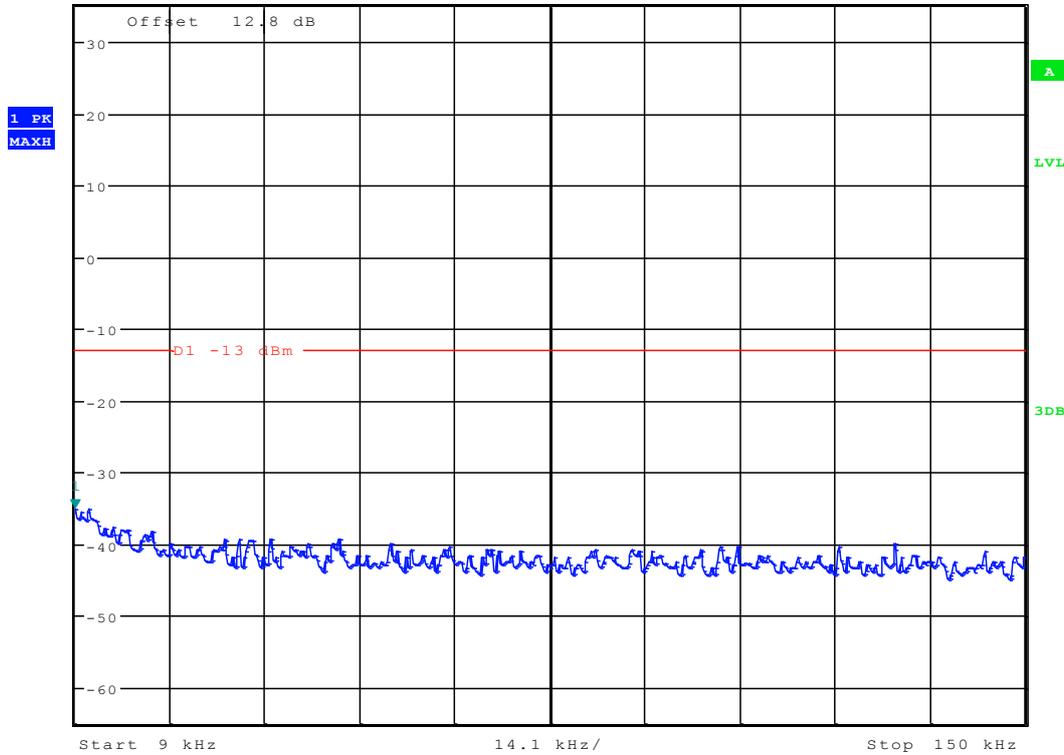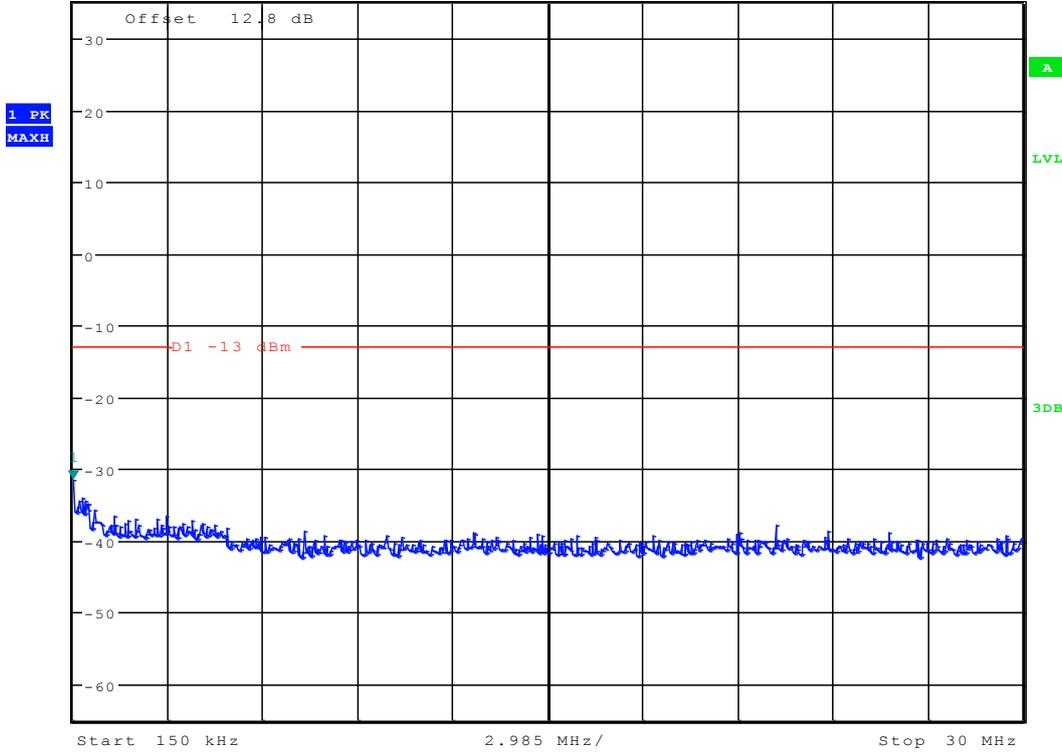


```
Start  1 GHz              1.175 GHz/              Stop  12.75 GHz
```

Date: 18.APR.2012 19:10:22

4.1.2.2.2 QPSK/1RBs /RB #max

```
* RBW  1 kHz        Marker 1 [T1 ]
* VBW  10 kHz                  -35.16 dBm
Ref  35 dBm          Att  50 dB        SWT  145 ms        9.000000000 kHz
```

Offset 12.8 dB

1 PK
MAXH

A

LVL

D1 -13 dBm

3DB

```
Start  9 kHz              14.1 kHz/              Stop  150 kHz
```

Date: 18.APR.2012 19:06:34

Date: 18.APR.2012 19:07:35

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```
                                    * RBW  100 kHz      Marker 1 [T1 ]
                                    * VBW  300 kHz            24.63 dBm
       Ref   35 dBm        Att  50 dB    SWT  100 ms    710.865384615 MHz
```
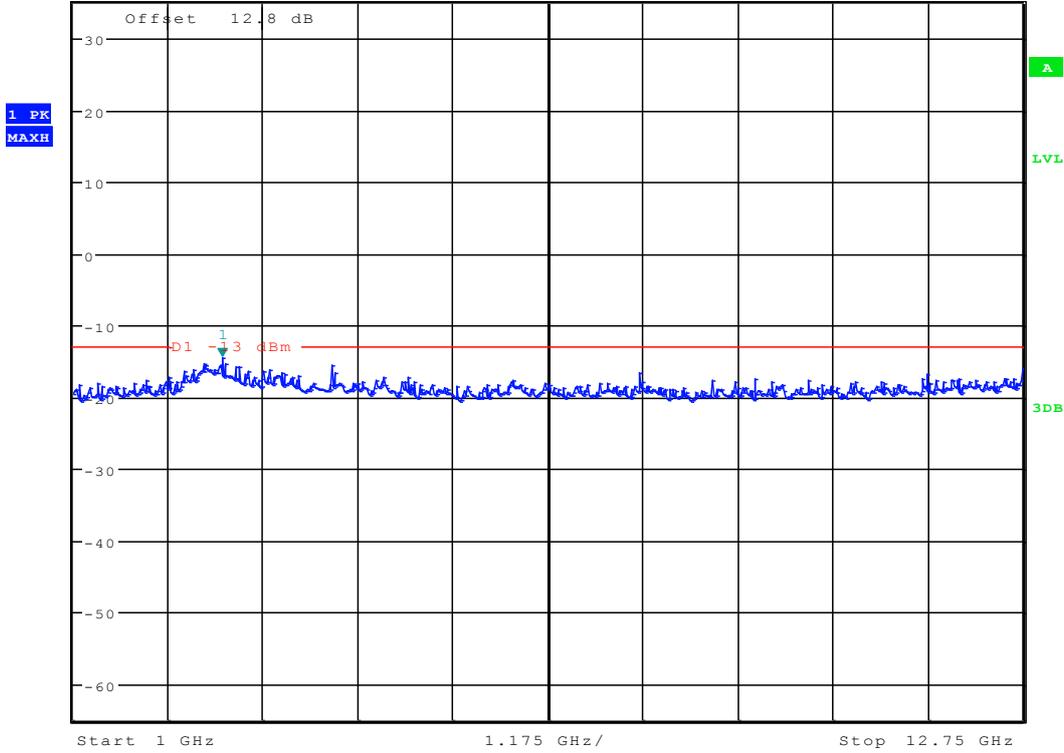


```
Start  30 MHz                    97 MHz/                    Stop  1 GHz
```
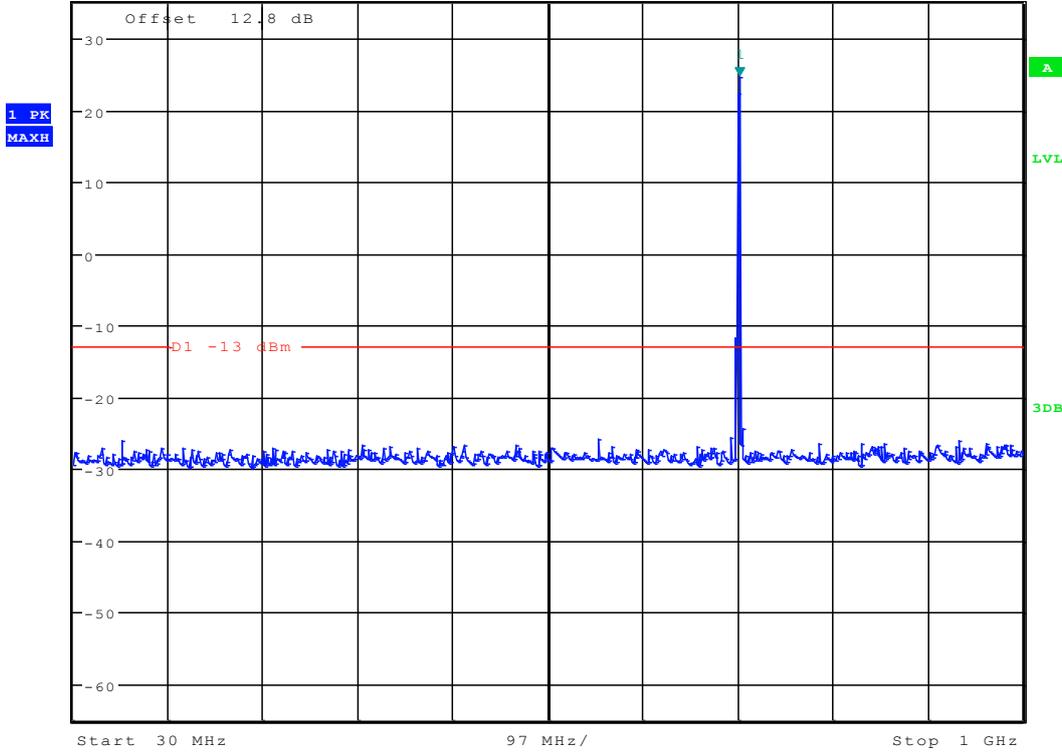
Date: 18.APR.2012 19:09:32

```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  3 MHz                -14.43 dBm
    Ref   35 dBm      Att  50 dB    SWT  70 ms        2.845352564 GHz
```
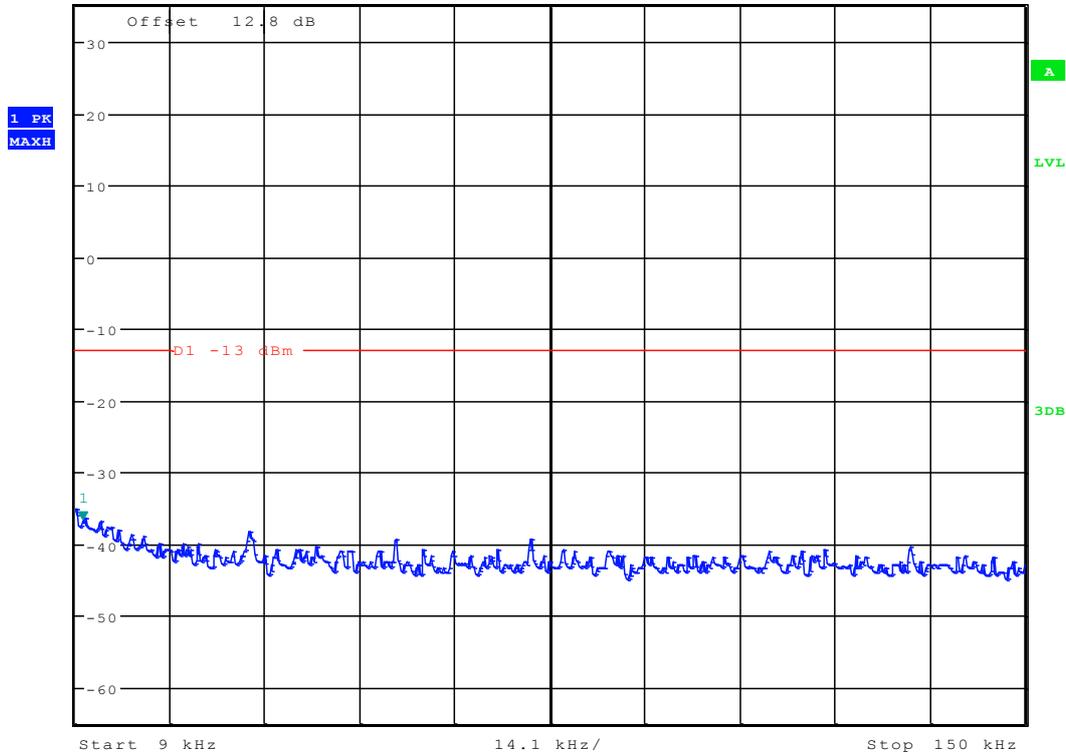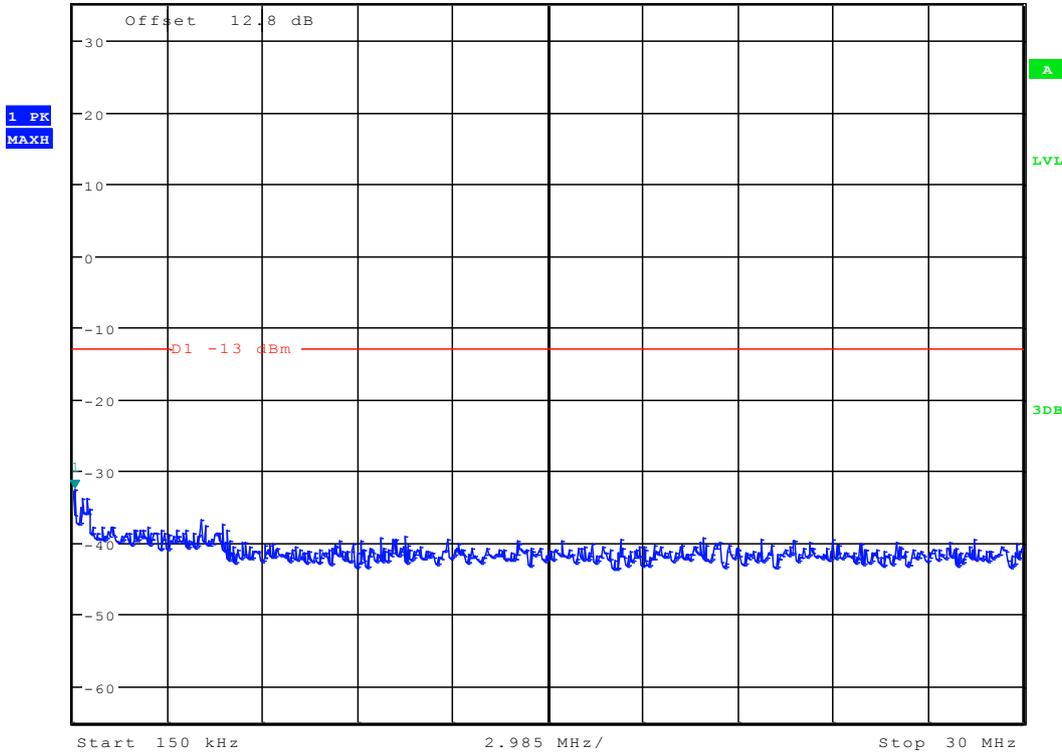


```
Start  1 GHz              1.175 GHz/              Stop  12.75 GHz
```

Date: 18.APR.2012 19:10:02

4.1.2.2.3 QPSK/full RBs

```
                                        *RBW  1 kHz        Marker 1 [T1 ]
                                        *VBW 10 kHz                -36.77 dBm
        Ref   35 dBm            Att  50 dB    SWT 145 ms     10.129807692 kHz

            Offset   12.8 dB                                               A
        ─30

1 PK    ─20                                                              LVL
MAXH
        ─10

        ─0

        ─-10
        D1 -13 dBm
        ─-20                                                             3DB

        ─-30
        1
        ─-40
        ─-50

        ─-60

        Start  9 kHz           14.1 kHz/              Stop  150 kHz
```
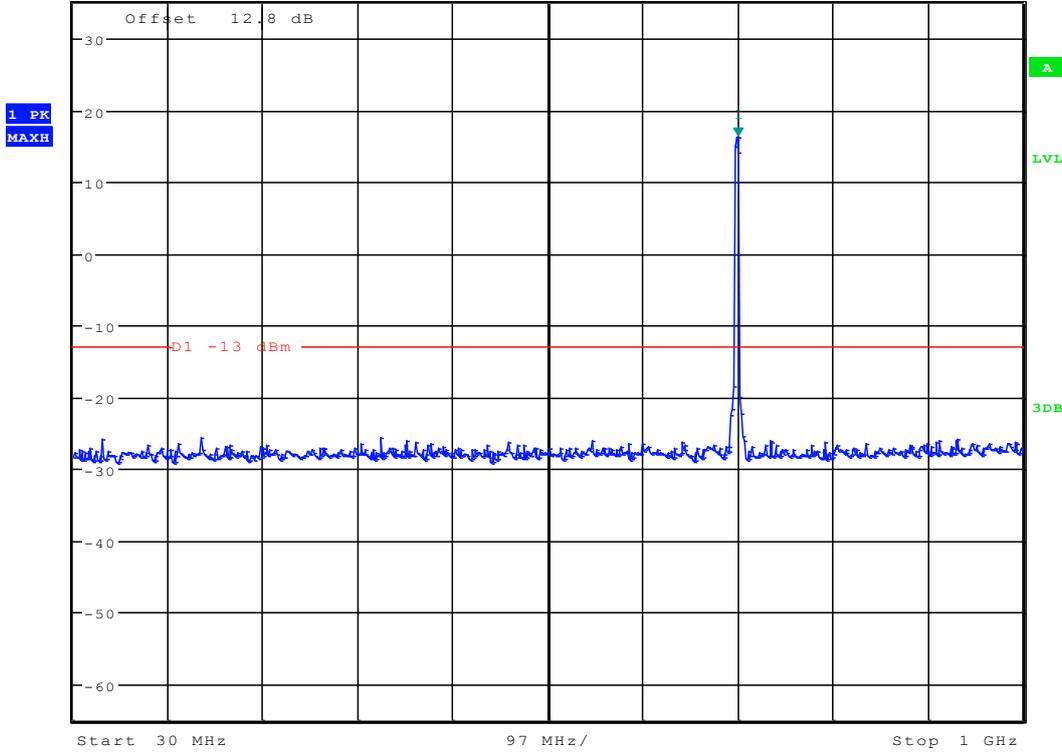
Date: 18.APR.2012 19:05:22

Date: 18.APR.2012 19:08:17

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```
                                    * RBW  100 kHz        Marker 1 [T1 ]
                                    * VBW  300 kHz               16.22 dBm
    Ref   35 dBm          Att  50 dB   SWT  100 ms     709.310897436 MHz
```
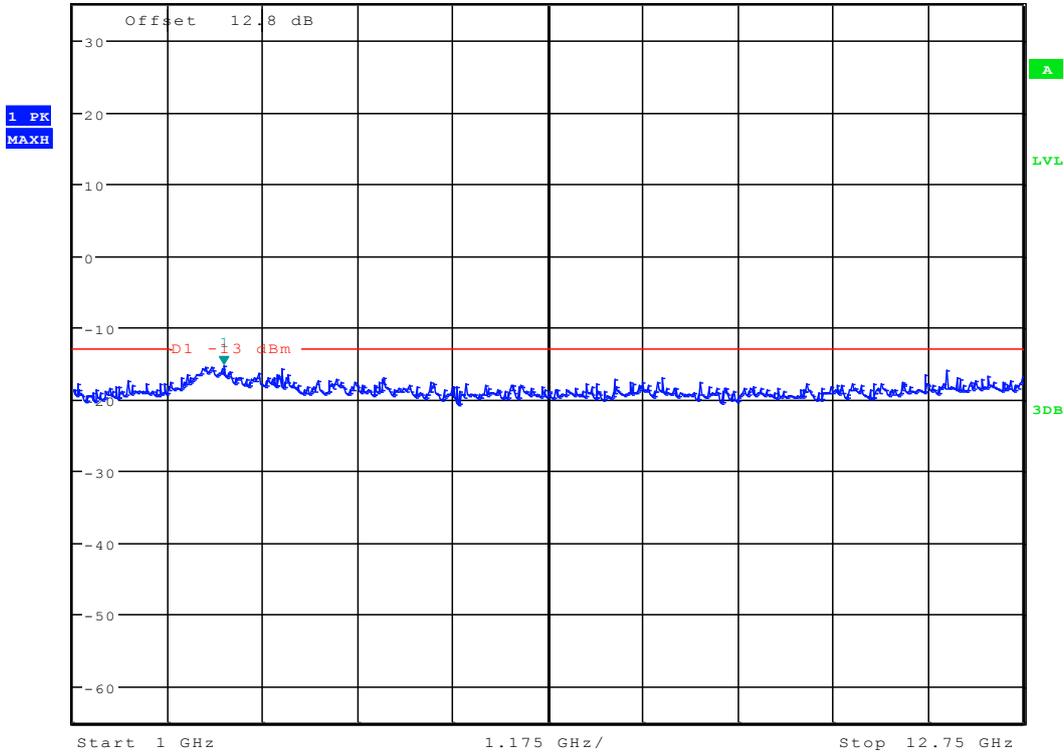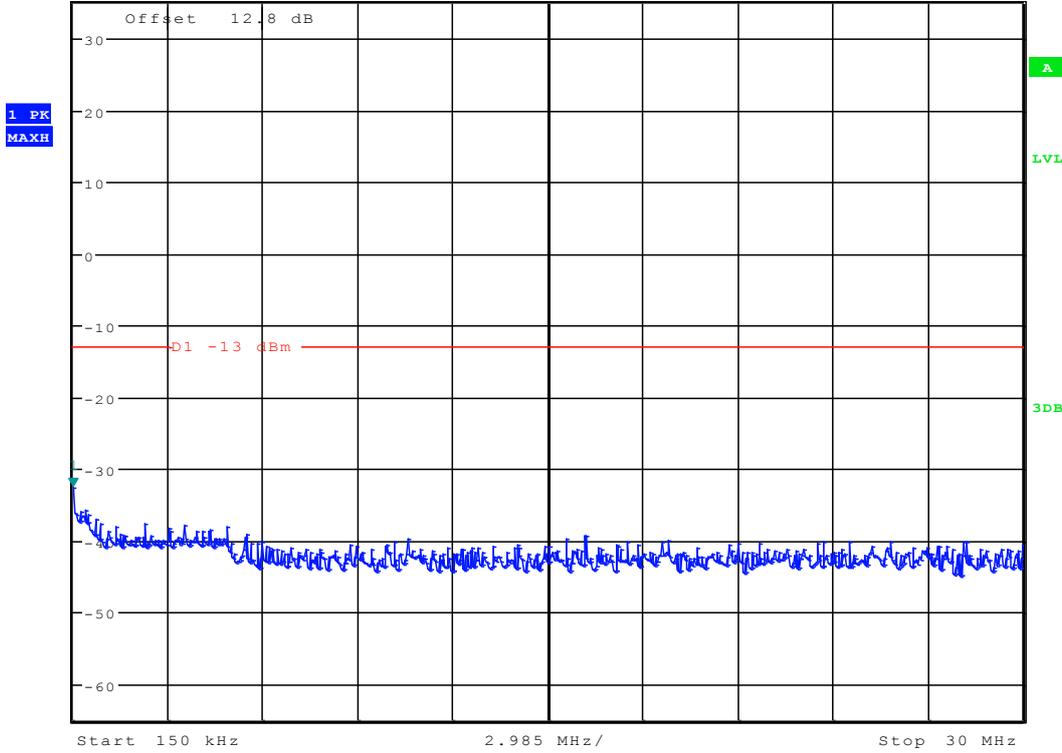
Offset 12.8 dB

1 PK
MAXH

D1 -13 dBm

Start 30 MHz   97 MHz/   Stop 1 GHz

Date: 18.APR.2012 19:08:58

Date: 18.APR.2012 19:10:48

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4.1.2.3 Channel = T

4.1.2.3.1 QPSK/1RBs /RB #0

Date: 18.APR.2012 19:25:36

Date: 18.APR.2012 19:24:41
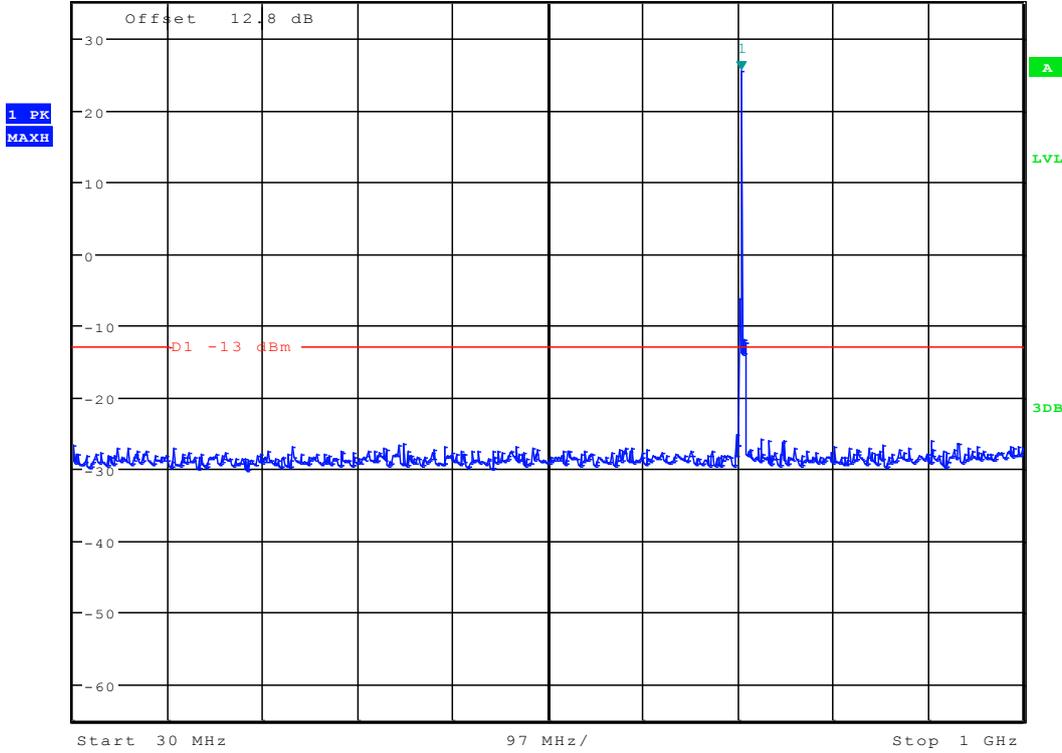
```
                                    * RBW  100 kHz      Marker 1 [T1 ]
                                    * VBW  300 kHz              25.37 dBm
      Ref   35 dBm        Att  50 dB     SWT  100 ms    712.419871795 MHz

      Offset   12.8 dB
   -30
                                                        1
1 PK                                                                        A
MAXH
   -20
                                                                           LVL
   -10

    0

   -10
       D1 -13 dBm

   -20
                                                                           3DB

   -30

   -40

   -50

   -60

  Start  30 MHz              97 MHz/              Stop  1 GHz
```
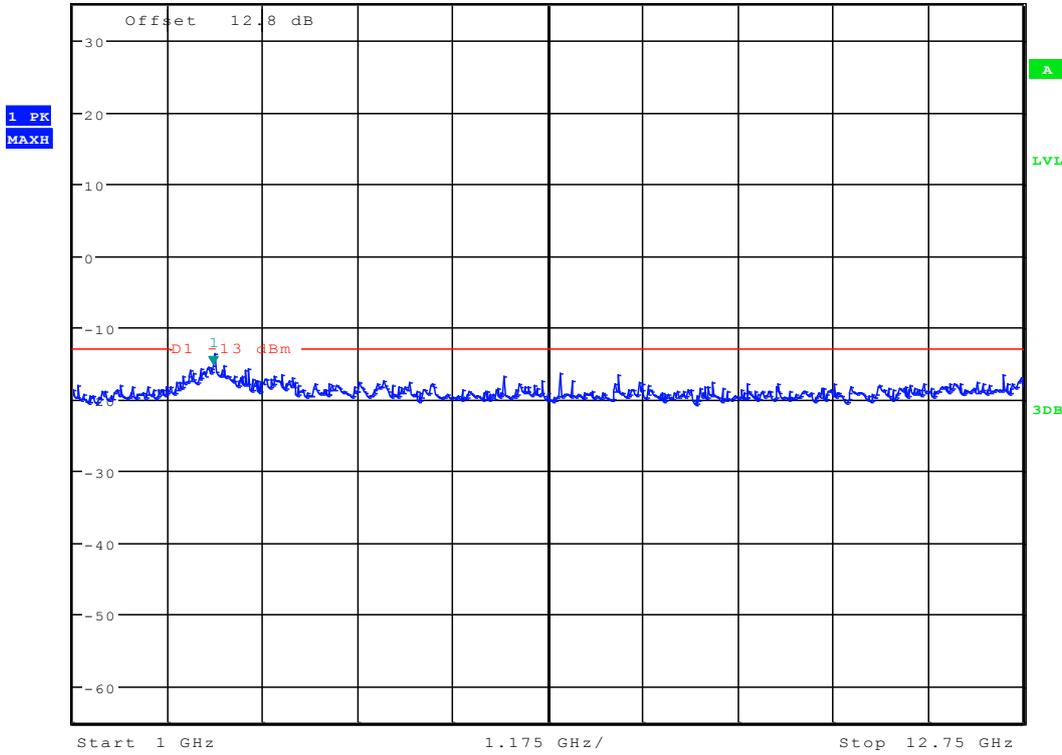
Date: 18.APR.2012 19:23:45

Date: 18.APR.2012 19:22:40

Report No:
SYBH(Z-RF)014042012-2003

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4.1.2.3.2 QPSK/1RBs /RB #max

```
                                    * RBW  1 kHz        Marker 1 [T1 ]
                                    * VBW 10 kHz              -32.56 dBm
      Ref   35 dBm        Att  50 dB    SWT 145 ms      9.903846154 kHz
```
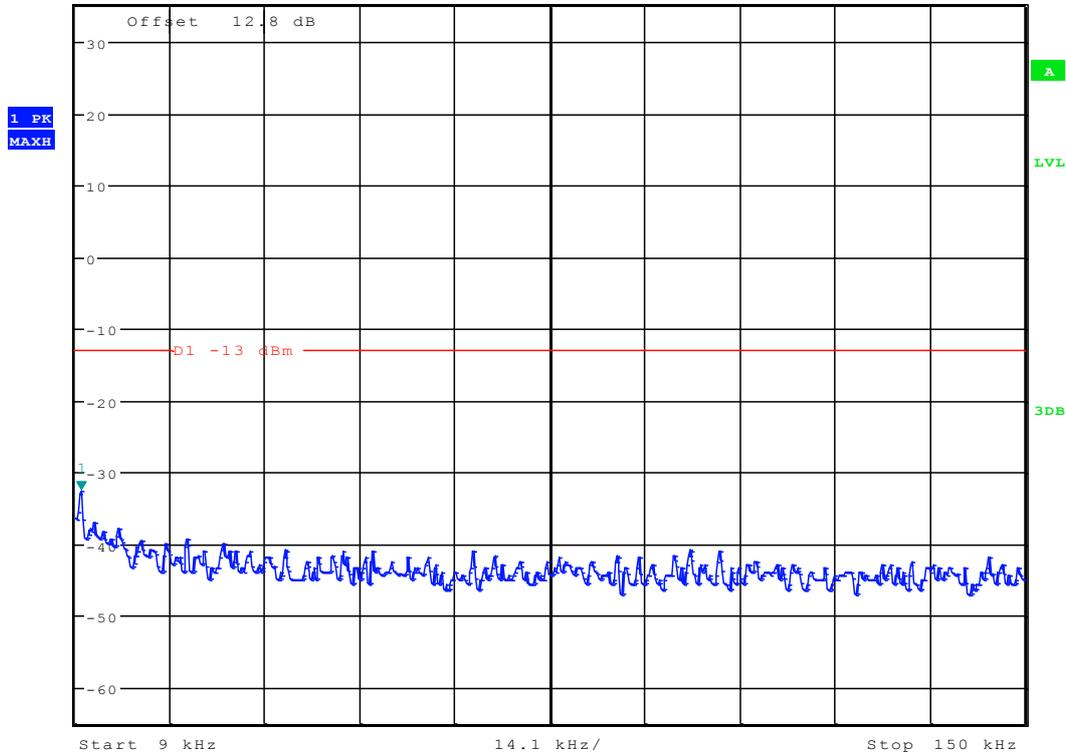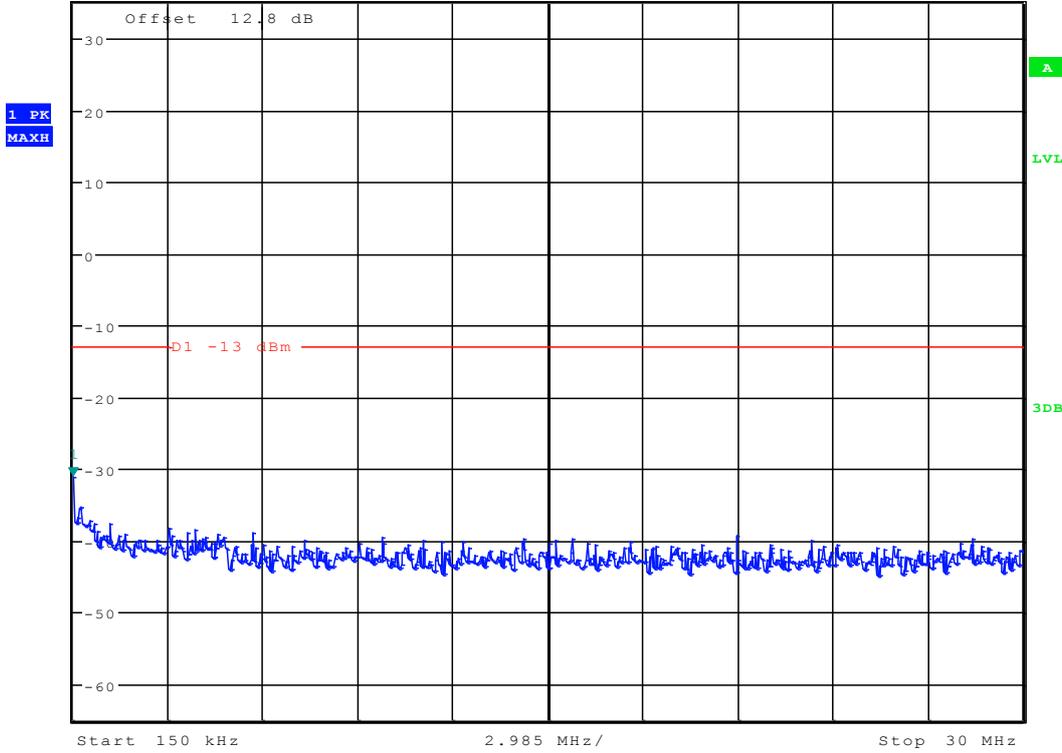
Offset   12.8 dB

D1 -13 dBm

Start 9 kHz   14.1 kHz/   Stop 150 kHz

Date: 18.APR.2012 19:25:20

```
                                    * RBW  10 kHz        Marker 1 [T1 ]
                                    * VBW  30 kHz                  -31.05 dBm
    Ref  35 dBm          Att  50 dB   SWT 300 ms         150.000000000 kHz
```
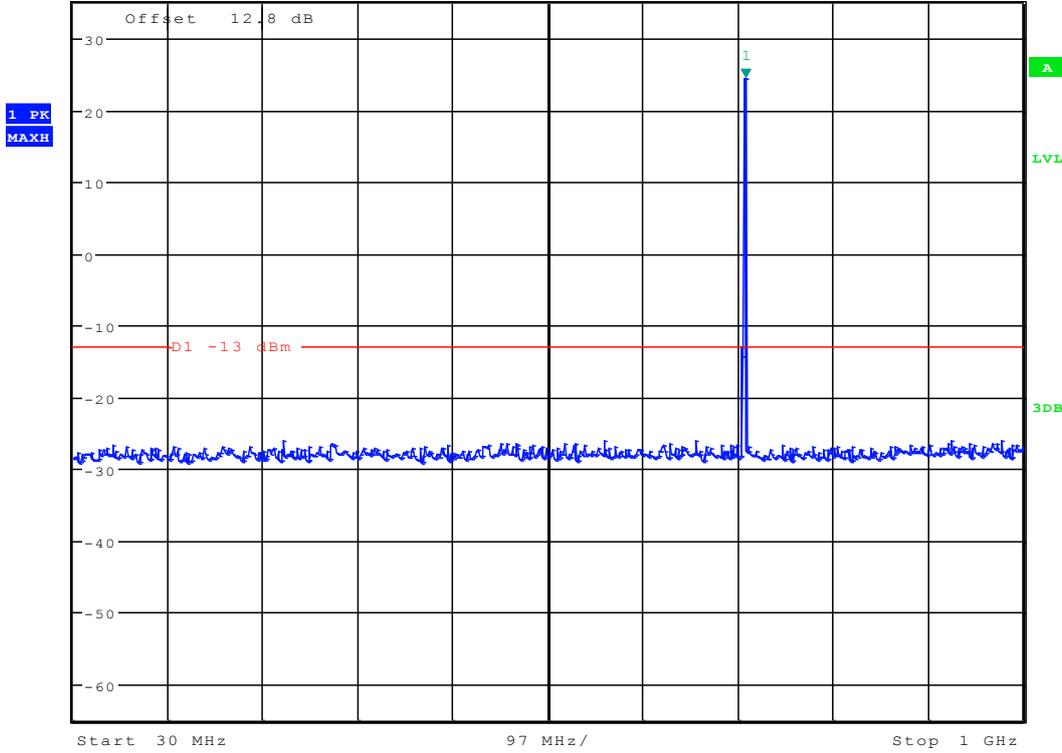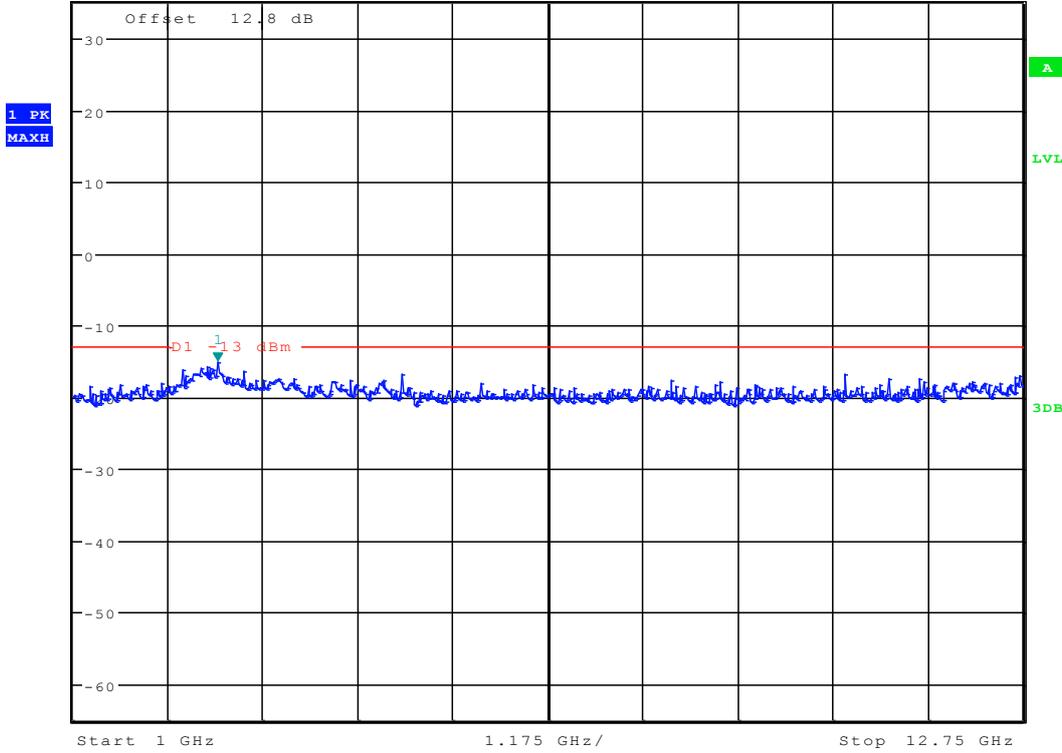


```
Start  150 kHz             2.985 MHz/              Stop  30 MHz
```

Date: 18.APR.2012 19:24:55

```
                                    *RBW  100 kHz      Marker 1 [T1 ]
                                    *VBW  300 kHz              24.38 dBm
         Ref   35 dBm        Att  50 dB    SWT  100 ms    717.083333333 MHz
```

Date: 18.APR.2012 19:23:32

```
                                    * RBW  1 MHz          Marker 1 [T1 ]
                                    * VBW  3 MHz                  -15.06 dBm
       Ref   35 dBm      Att  50 dB   SWT  70 ms        2.788862179 GHz

         Offset   12.8 dB
```
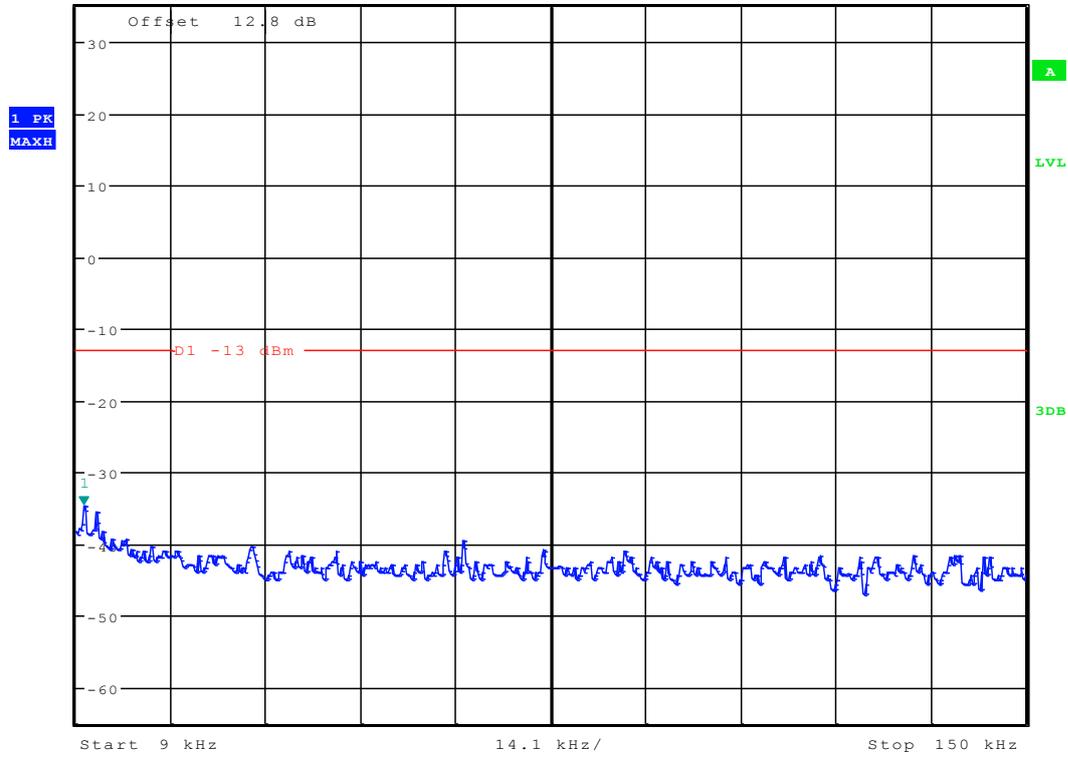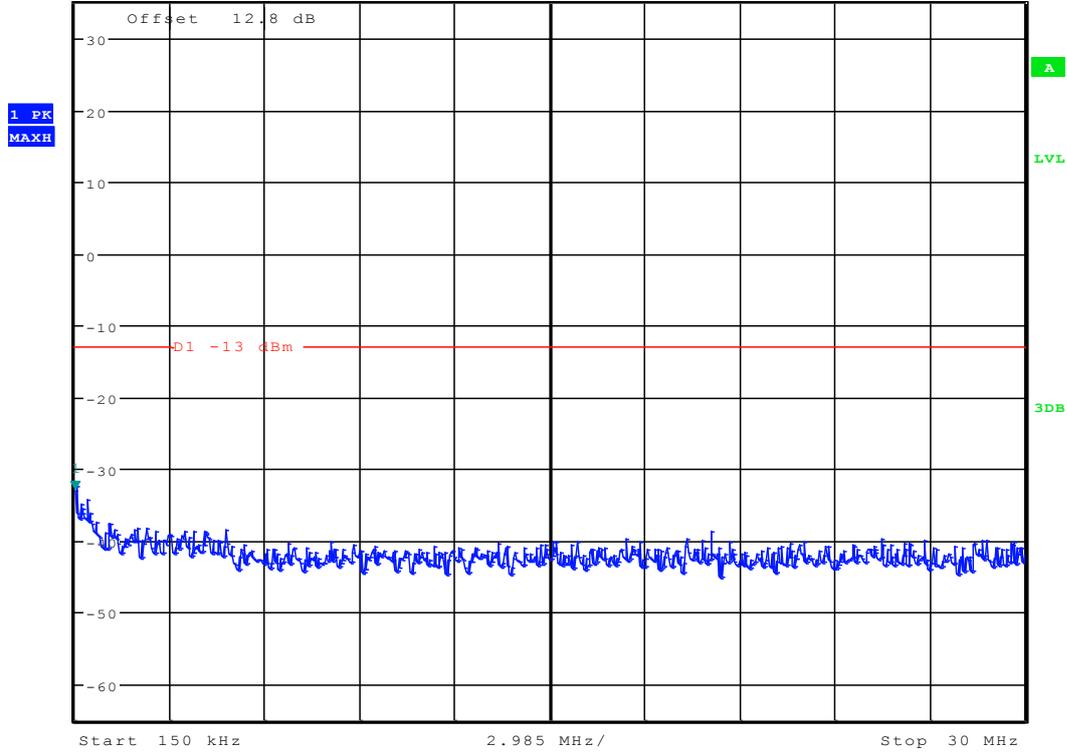
Date: 18.APR.2012 19:23:00

4.1.2.3.3 QPSK/full RBs

```
                              * RBW  1 kHz       Marker 1 [T1 ]
                              * VBW  10 kHz                -34.60 dBm
         Ref  35 dBm          Att  50 dB    SWT 145 ms    10.129807692 kHz

         Offset   12.8 dB
         30                                                              A

1 PK     20
MAXH
                                                                        LVL
         10

          0

        -10
              D1 -13 dBm

        -20                                                             3DB

        -30
      1
        -40

        -50

        -60

         Start  9 kHz          14.1 kHz/              Stop  150 kHz
```
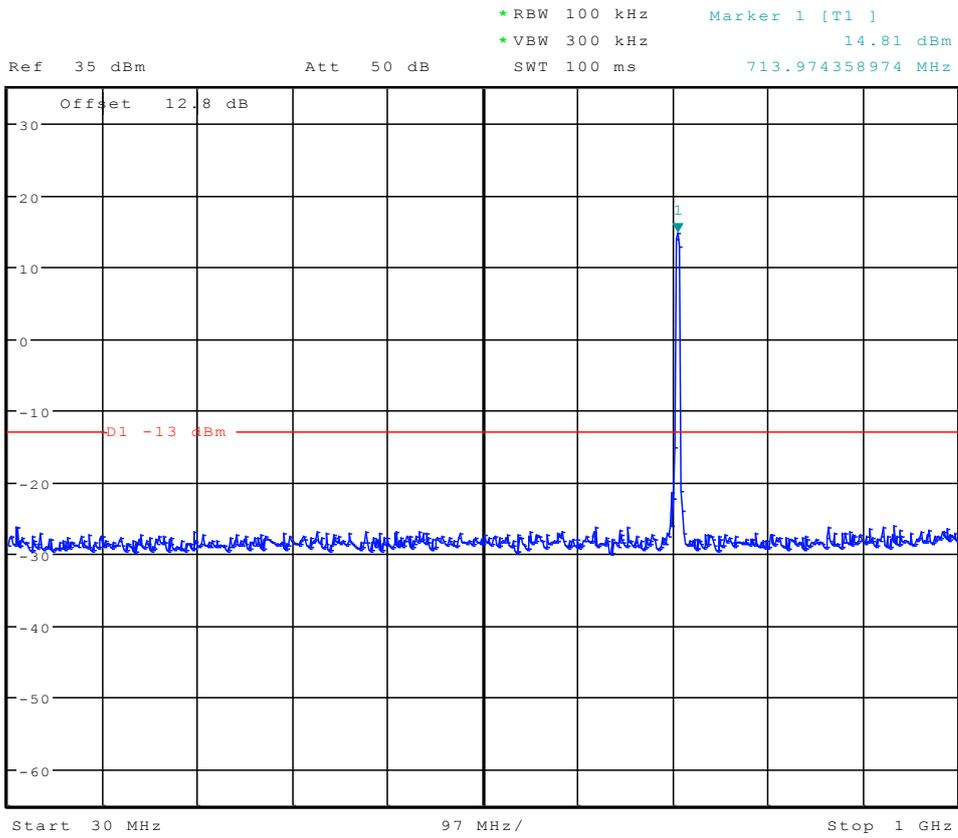
Date: 18.APR.2012 19:26:02

```
                                    * RBW  10 kHz      Marker 1 [T1 ]
                                    * VBW  30 kHz              -32.99 dBm
        Ref   35 dBm      Att  50 dB   SWT  300 ms    150.000000000 kHz
```
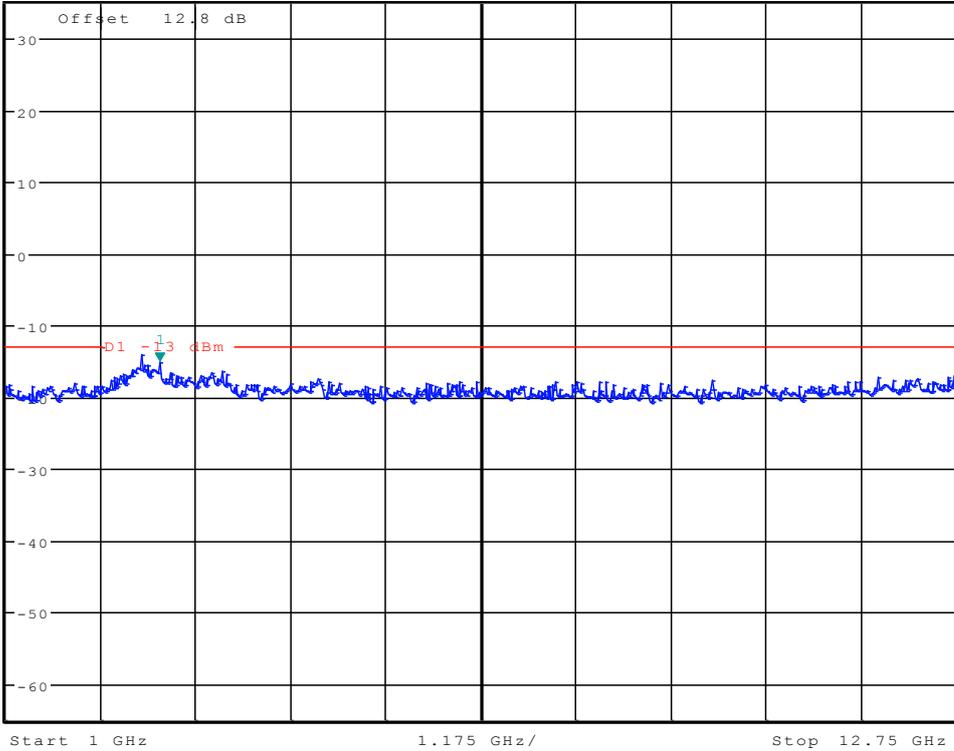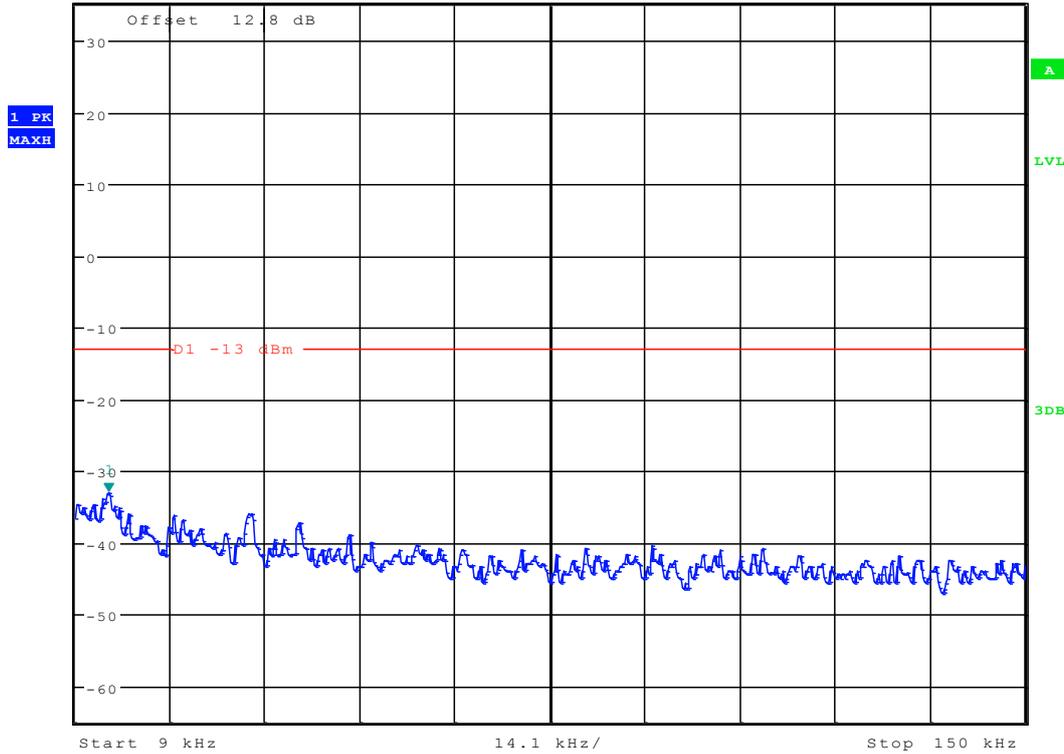


```
Start  150 kHz            2.985 MHz/           Stop  30 MHz
```

Date: 18.APR.2012 19:24:26

```
                                  * RBW  100 kHz        Marker 1 [T1 ]
                                  * VBW  300 kHz                14.81 dBm
           Ref  35 dBm      Att  50 dB    SWT  100 ms    713.974358974 MHz
```
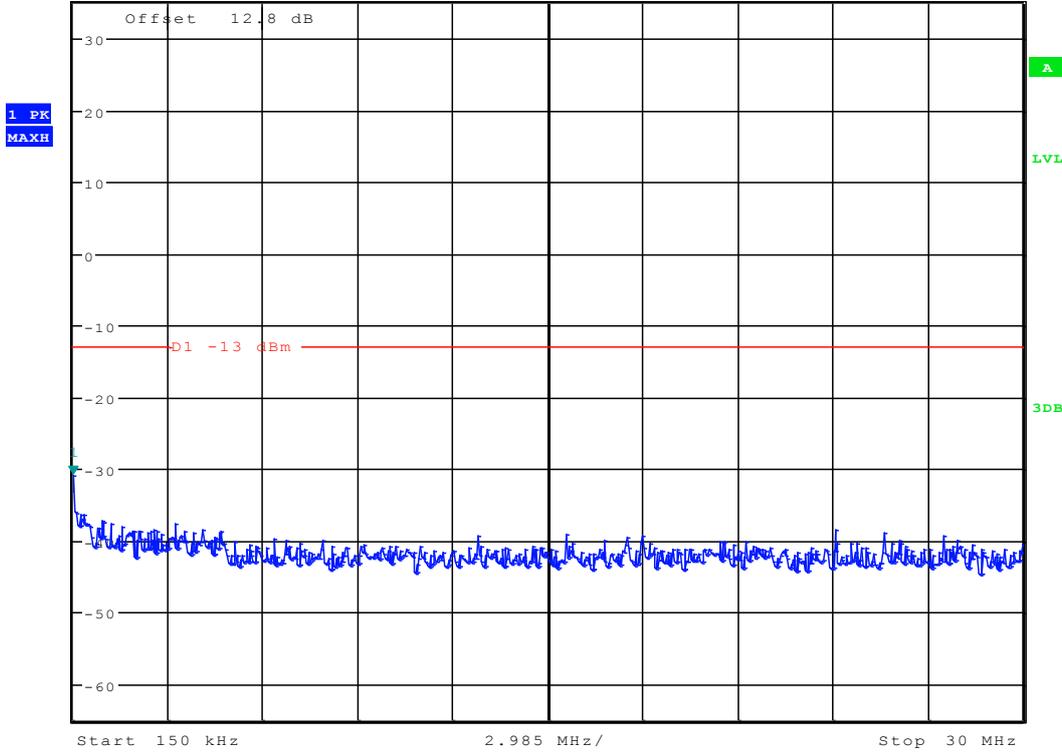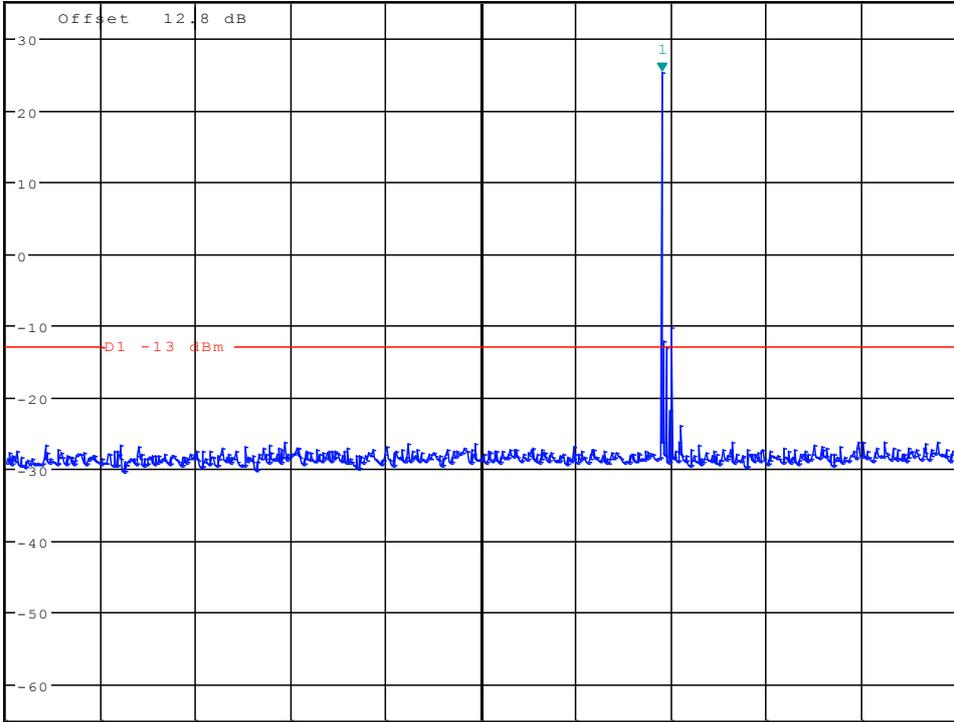


```
Start  30 MHz              97 MHz/              Stop  1 GHz
```

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```
                                           * RBW  1 MHz          Marker 1 [T1 ]
                                           * VBW  3 MHz                -15.10 dBm
        Ref   35 dBm          Att  50 dB     SWT 70 ms          2.901842949 GHz
```
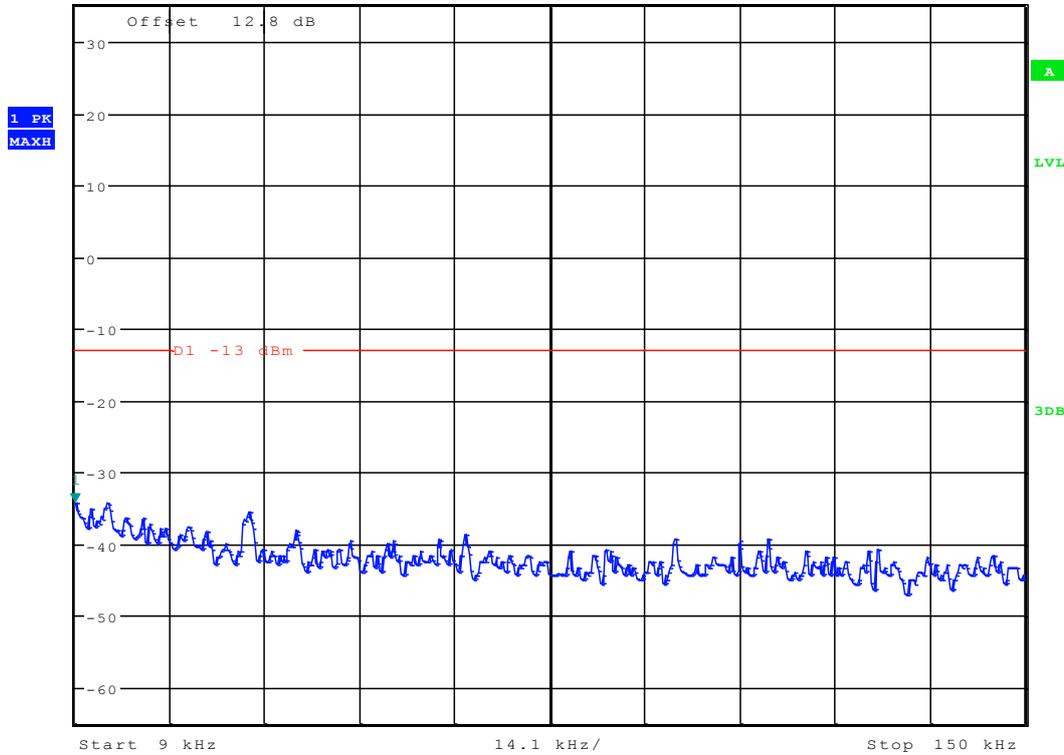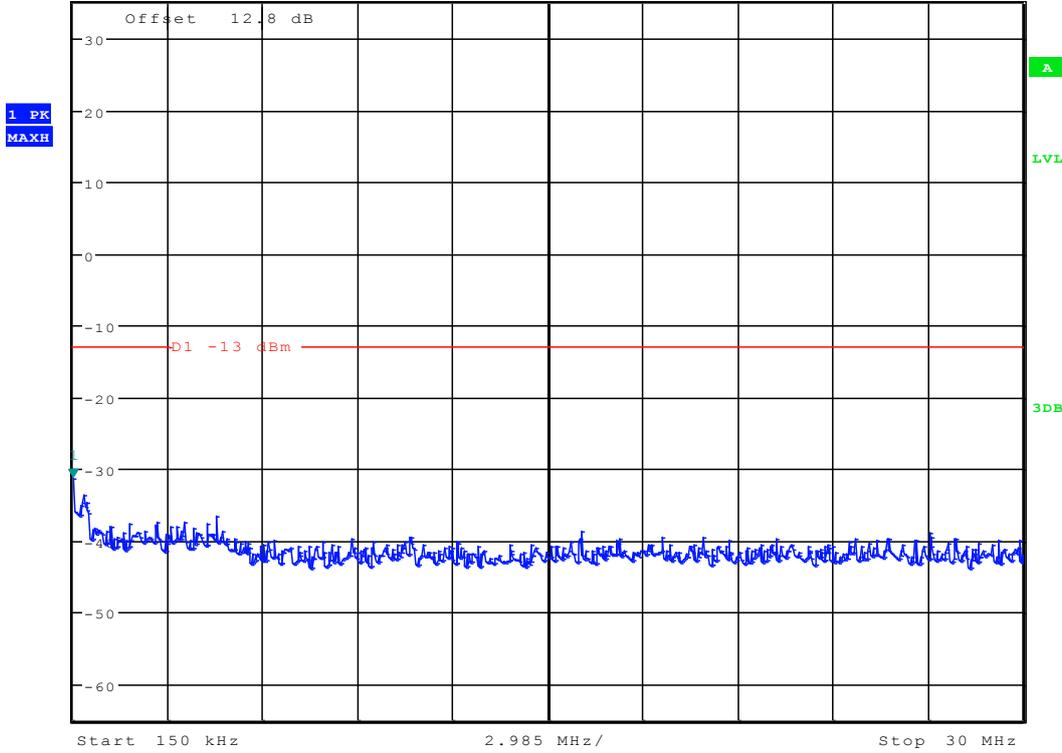


```
Start  1 GHz               1.175 GHz/                Stop  12.75 GHz
```

Date: 18.APR.2012 19:22:08

4.1.3 Channel Bandwidth = Highest (10 MHz)

4.1.3.1 Channel = B

4.1.3.1.1 QPSK/1RBs /RB #0

```
                              * RBW  1 kHz         Marker 1 [T1 ]
                              * VBW  10 kHz                  -33.06 dBm
  Ref  35 dBm        Att  50 dB    SWT 145 ms       13.971153846 kHz

       Offset  12.8 dB                                            A
  -30
  -20                                                            LVL
  -10
   0
  -10 — D1 -13 dBm ————————————————————————————————
  -20                                                            3DB
  -30
  -40
  -50
  -60
  Start  9 kHz          14.1 kHz/              Stop  150 kHz
```

Date: 18.APR.2012 19:58:44

Offset 12.8 dB

*RBW 10 kHz	Marker 1 [T1]
*VBW 30 kHz	-30.85 dBm
SWT 300 ms	150.000000000 kHz

Ref 35 dBm   Att 50 dB

1 PK
MAXH

A

LVL

D1 -13 dBm

3DB

Start 150 kHz   2.985 MHz/   Stop 30 MHz

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Date: 18.APR.2012 20:01:05

```
                                  * RBW  1 MHz       Marker 1 [T1 ]
                                  * VBW  3 MHz                -15.09 dBm
     Ref   35 dBm      Att  50 dB   SWT  70 ms       2.675881410 GHz

         Offset   12.8 dB
```



```
Start  1 GHz          1.175 GHz/          Stop  12.75 GHz
```
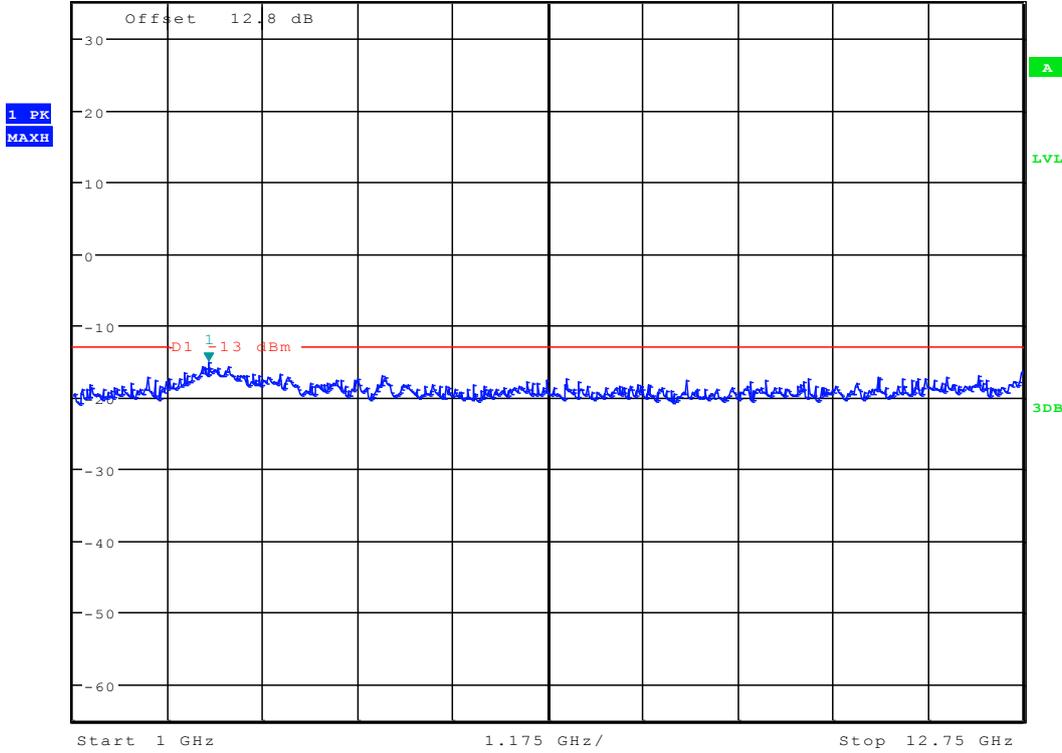
Date: 18.APR.2012 20:02:12

4.1.3.1.2 QPSK/1RBs /RB #max

```
                                    * RBW  1 kHz       Marker 1 [T1 ]
                                    * VBW  10 kHz              -34.22 dBm
     Ref  35 dBm          Att  50 dB    SWT  145 ms     9.000000000 kHz
```
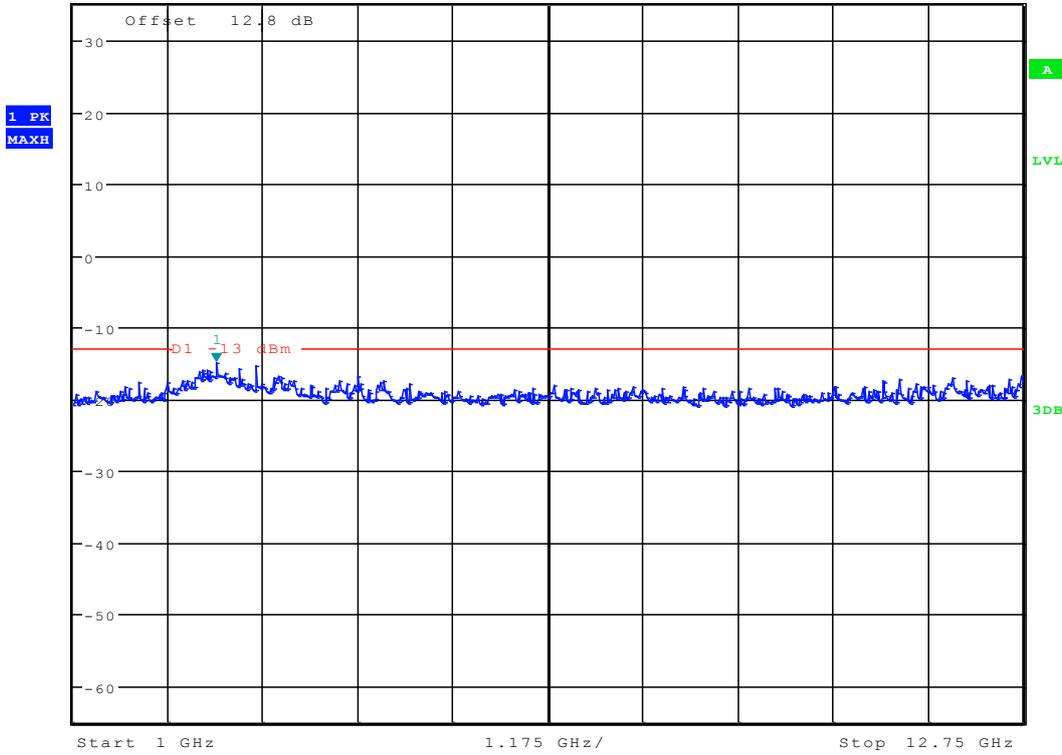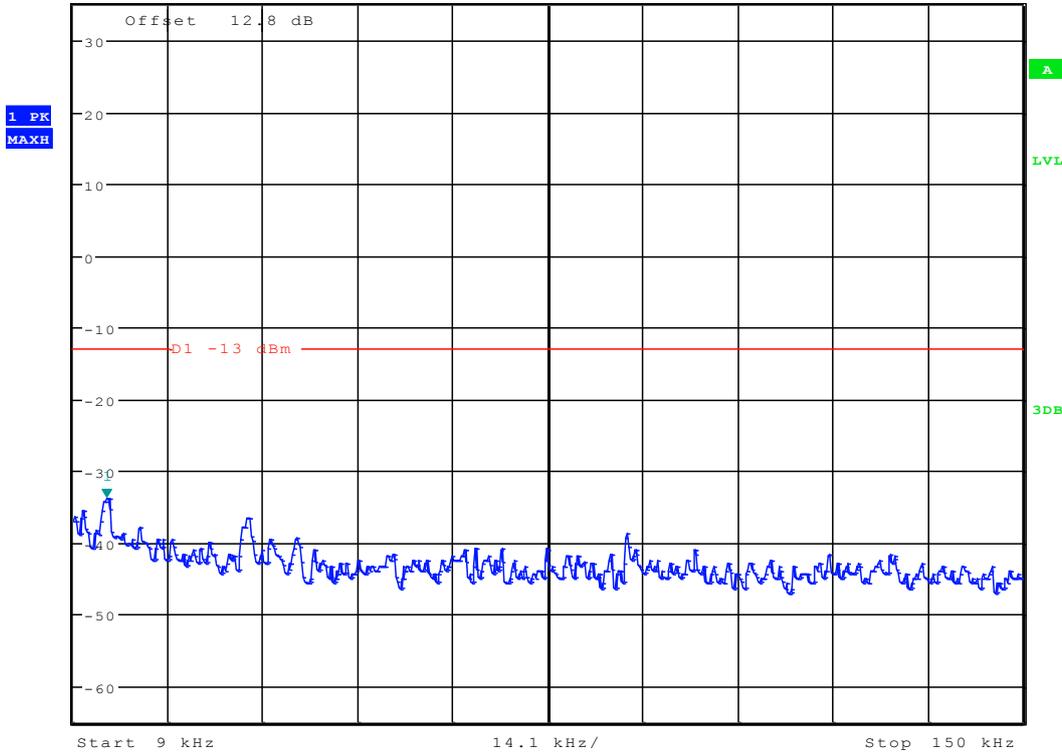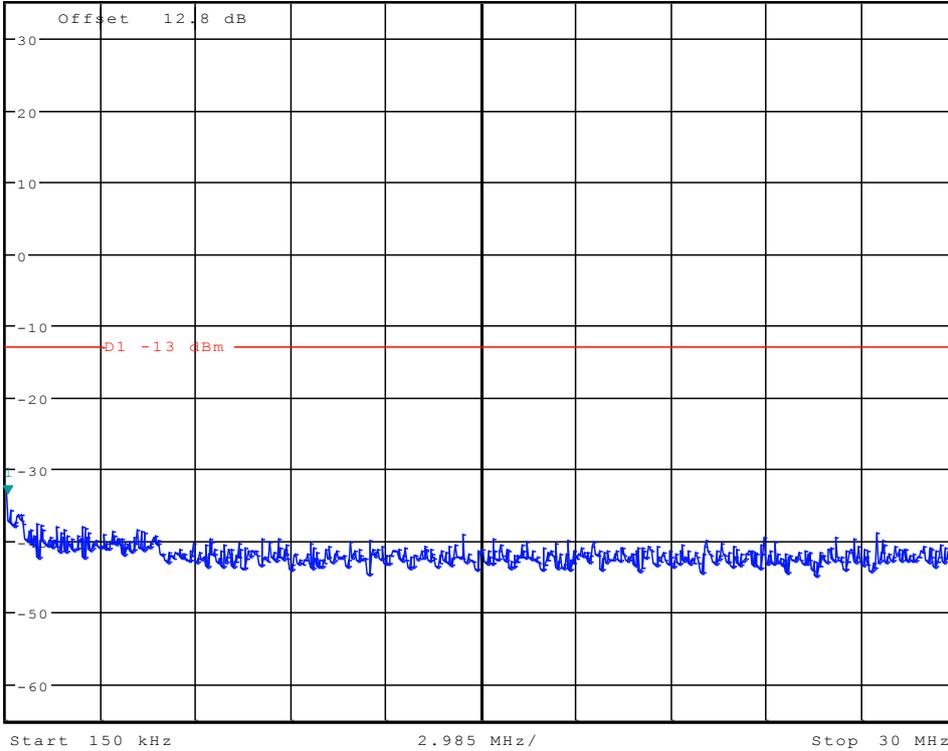
```
     Start  9 kHz              14.1 kHz/              Stop  150 kHz
```

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```
                                    * RBW 100 kHz      Marker 1 [T1 ]
                                    * VBW 300 kHz              24.55 dBm
        Ref   35 dBm      Att  50 dB  SWT 100 ms    709.310897436 MHz

        Offset  12.8 dB
    -30                                                              A

1 PK
MAXH -20                                                            LVL

    -10

      0

    -10
      D1 -13 dBm

    -20                                                            3DB

    -30

    -40

    -50

    -60

  Start  30 MHz              97 MHz/            Stop  1 GHz
```
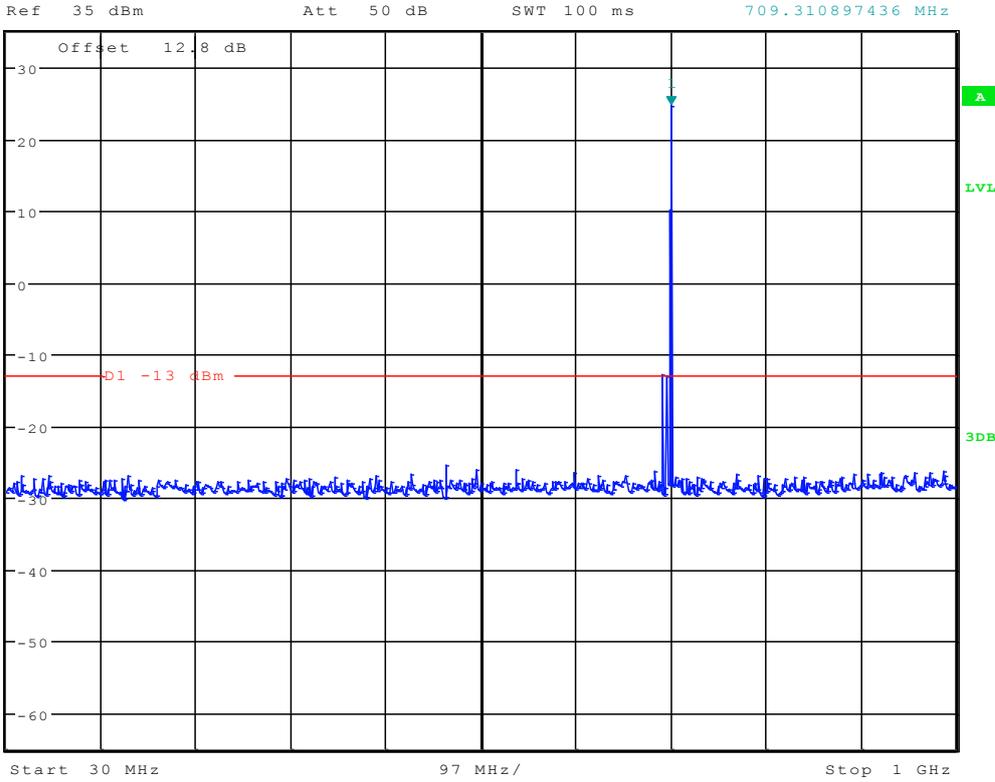
Date: 18.APR.2012 20:01:29

```
                                    * RBW  1 MHz          Marker 1 [T1 ]
                                    * VBW  3 MHz                 -14.90 dBm
    Ref   35 dBm          Att   50 dB     SWT  70 ms      2.770032051 GHz
```
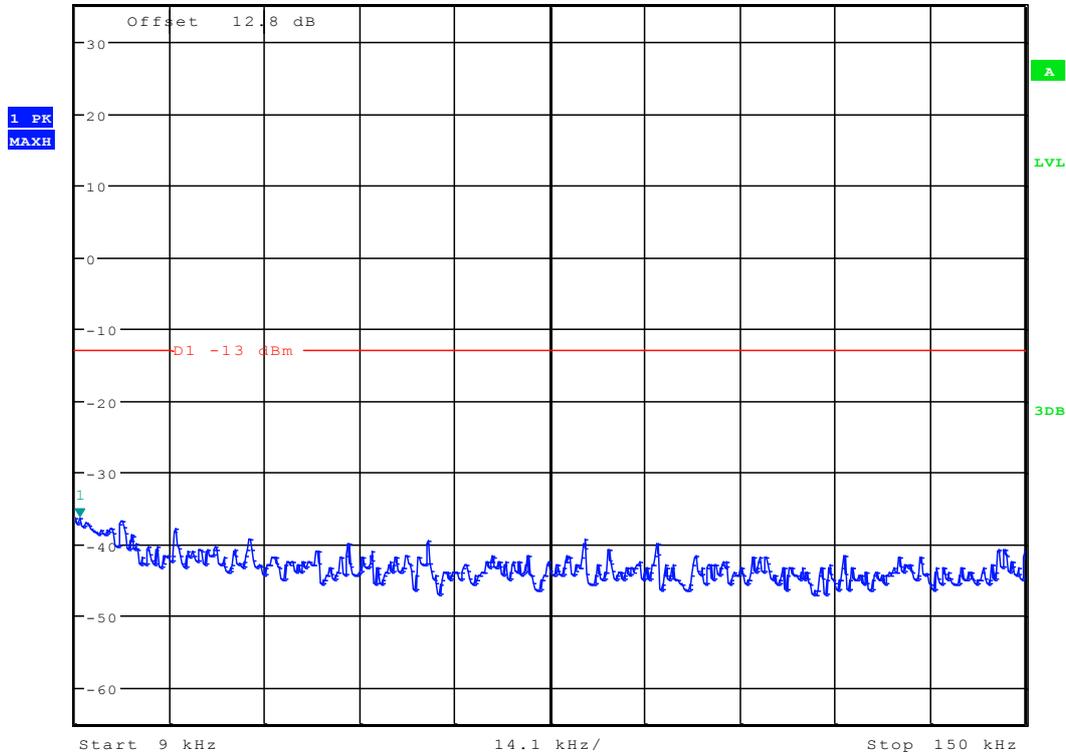

Date: 18.APR.2012 20:01:55

4.1.3.1.3 QPSK/full RBs

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```
                                        * RBW  10 kHz     Marker 1 [T1 ]
                                        * VBW  30 kHz                -33.66 dBm
          Ref   35 dBm        Att  50 dB   SWT  300 ms    197.836538462 kHz
```
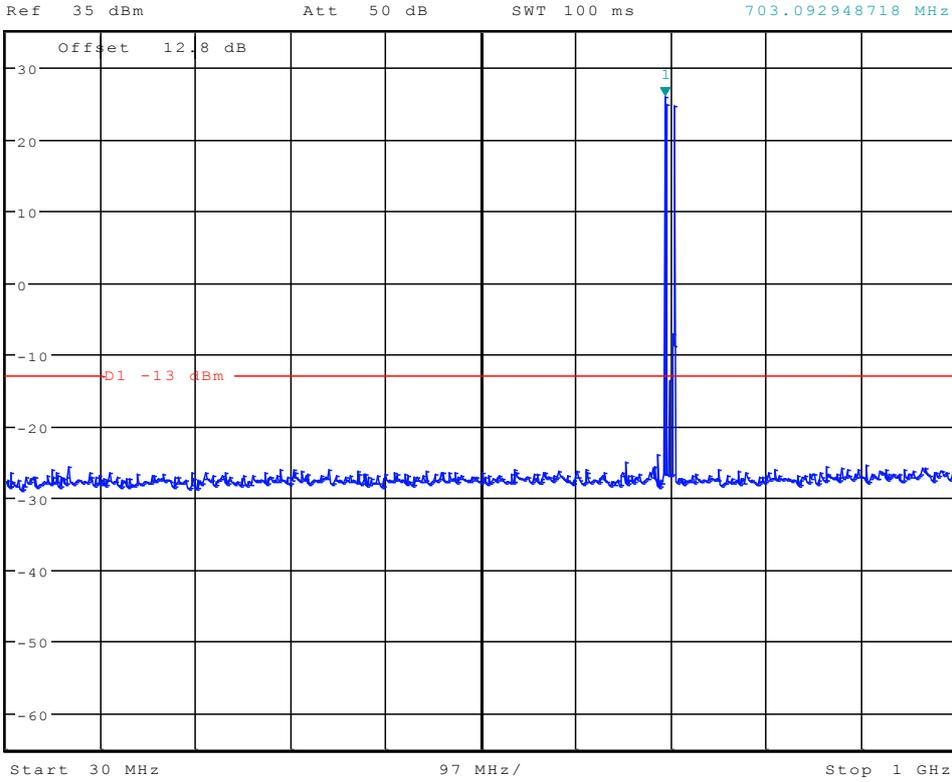


```
Date: 18.APR.2012  20:00:14
```

* RBW 100 kHz
* VBW 300 kHz
SWT 100 ms

Marker 1 [T1]
14.09 dBm
706.201923077 MHz

Ref 35 dBm   Att 50 dB

Offset 12.8 dB

1 PK
MAXH

A

LVL

D1 -13 dBm

3DB

Start 30 MHz   97 MHz/   Stop 1 GHz

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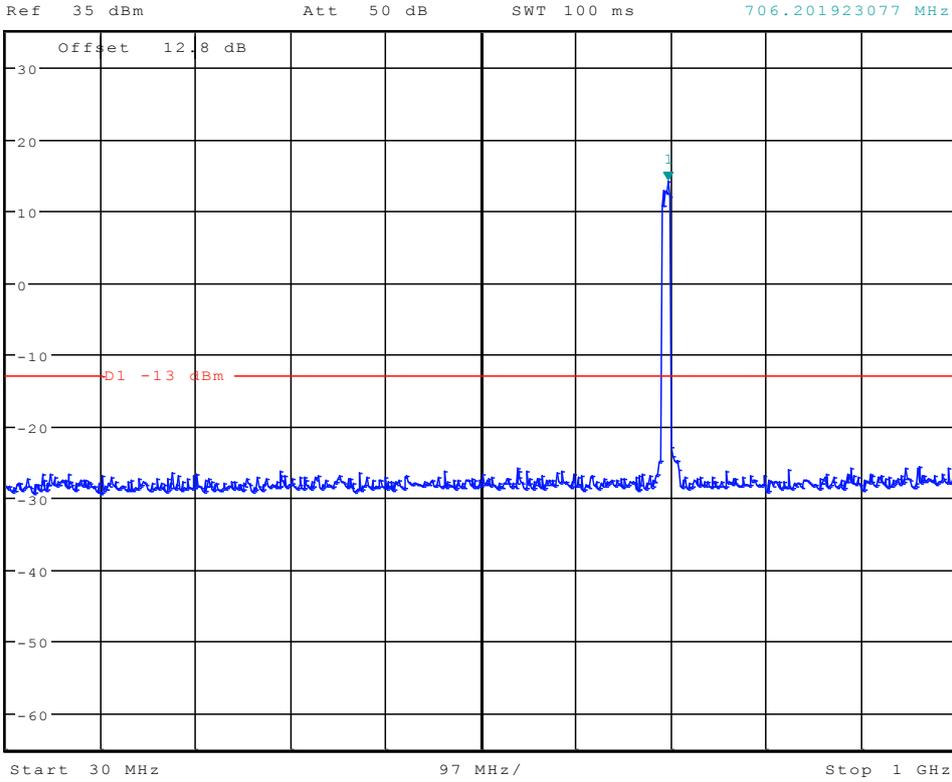
```
                                    * RBW  1 MHz          Marker 1 [T1 ]
                                    * VBW  3 MHz                 -15.00 dBm
     Ref   35 dBm        Att  50 dB   SWT  70 ms         2.883012821 GHz
```



```
Start  1 GHz              1.175 GHz/               Stop  12.75 GHz
```
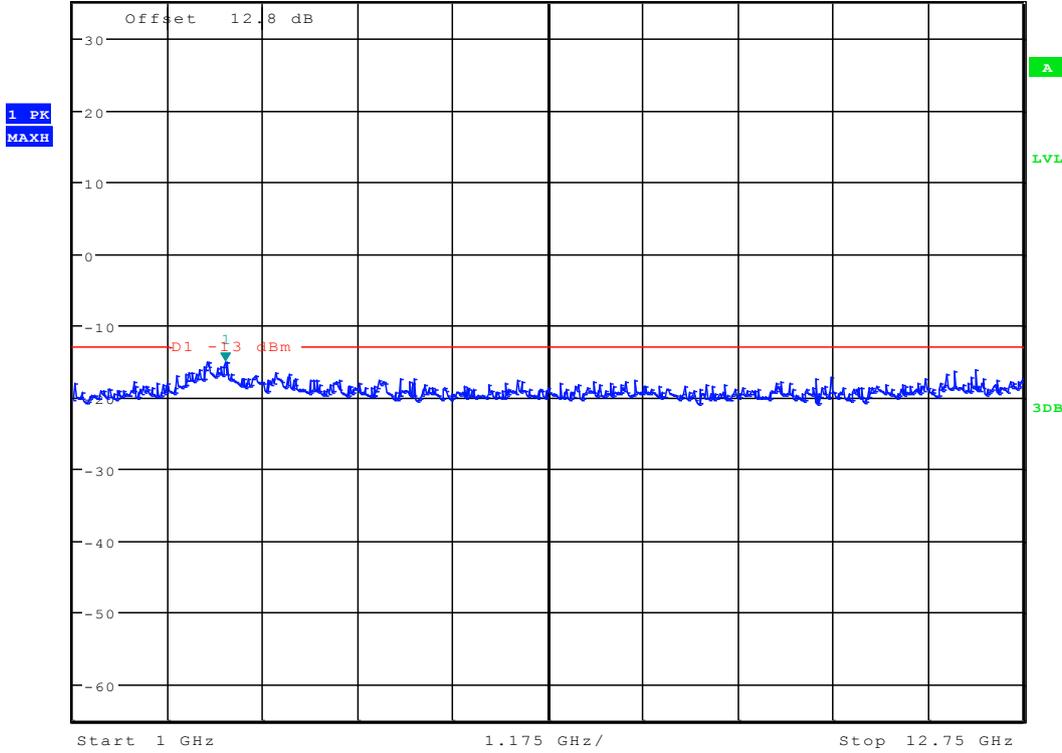
Date: 18.APR.2012 20:02:30

4.1.3.2 Channel = M

4.1.3.2.1 QPSK/1RBs /RB #0

```
                                          * RBW  1 kHz        Marker 1 [T1 ]
                                          * VBW 10 kHz                 -36.29 dBm
        Ref   35 dBm         Att  50 dB     SWT 145 ms         9.677884615 kHz
```
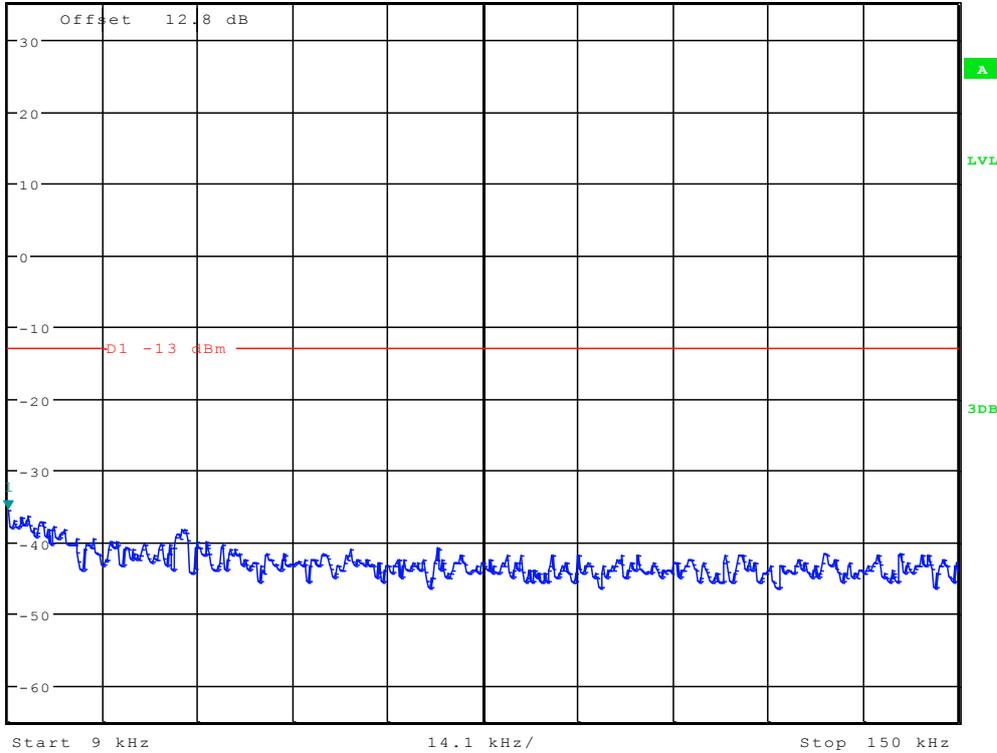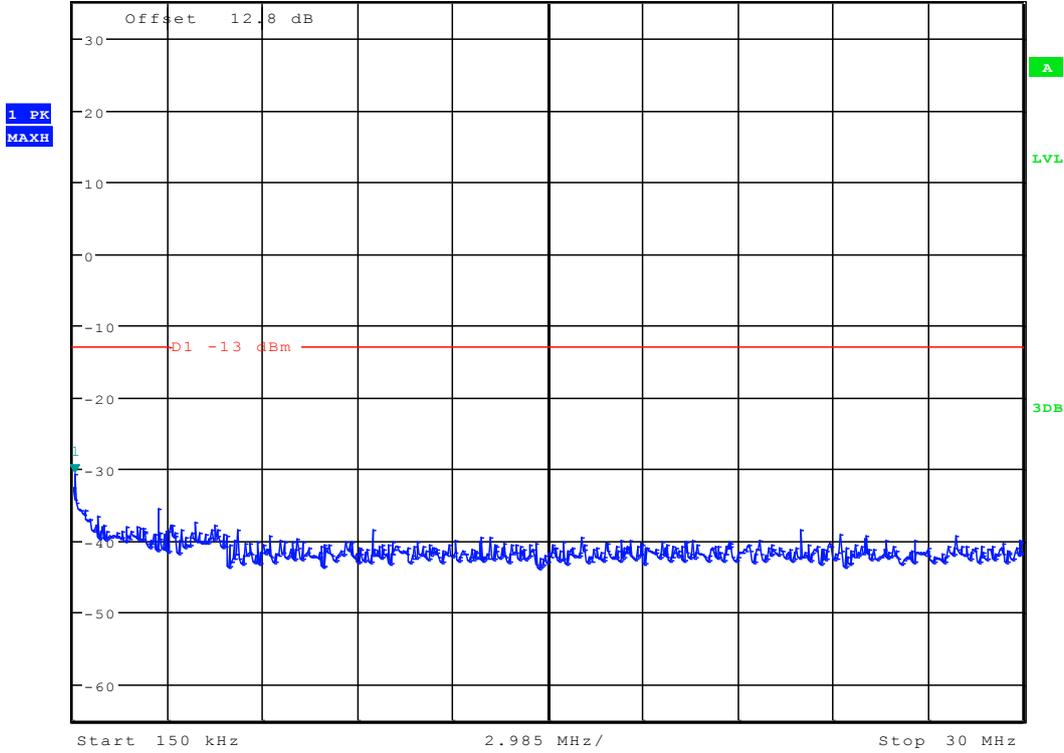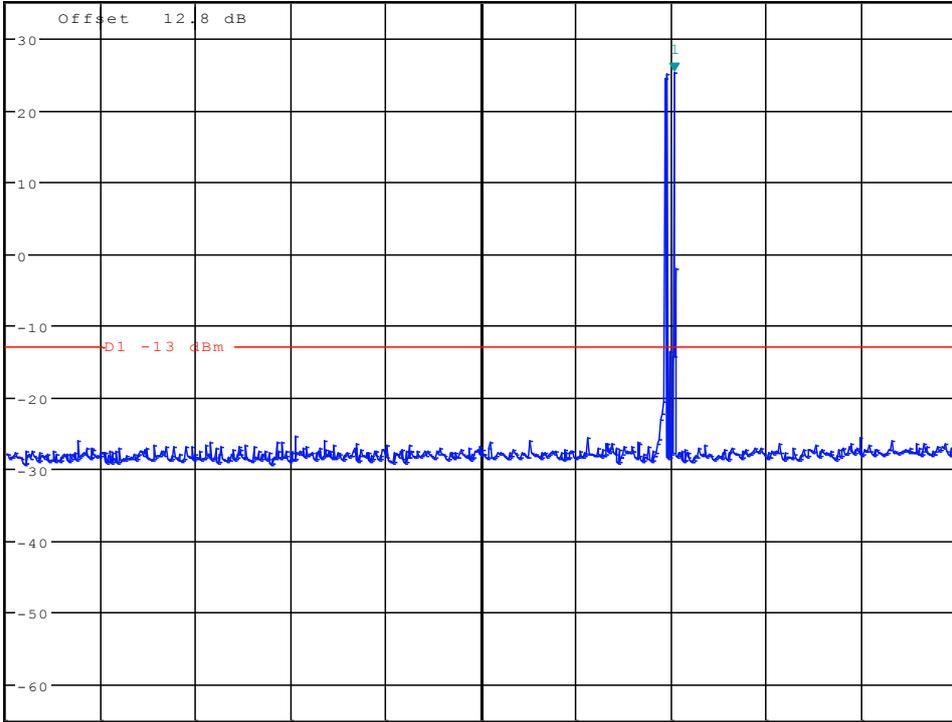


```
Date: 18.APR.2012  20:17:30
```
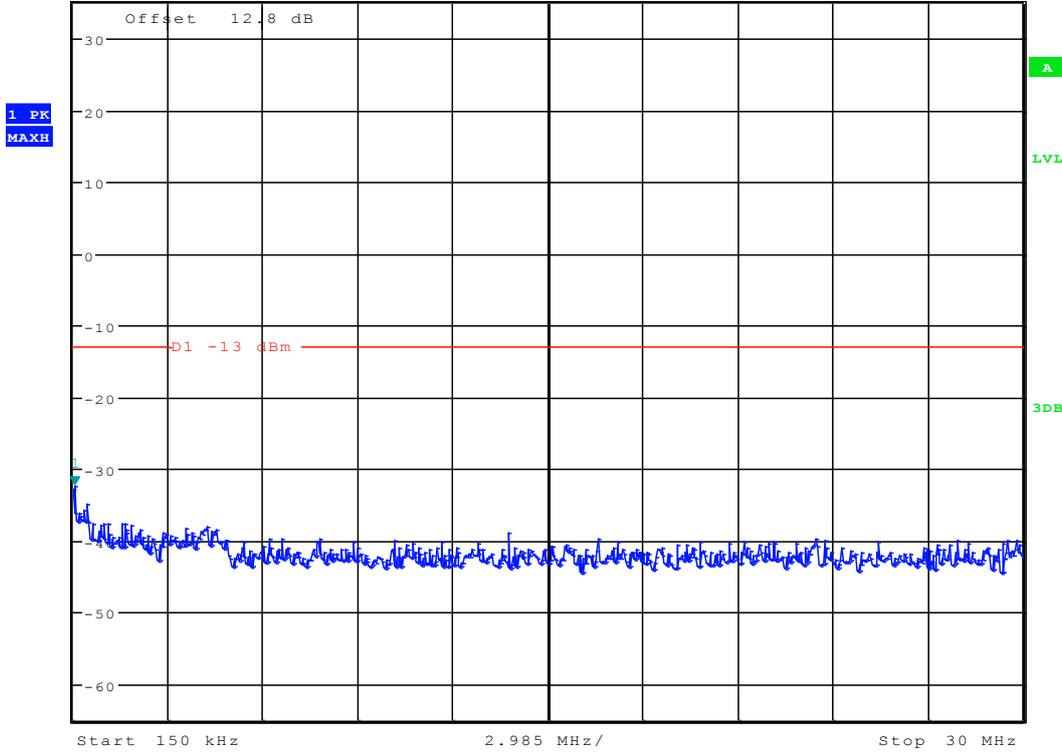
Date: 18.APR.2012 20:16:21

Date: 18.APR.2012 20:11:01

```
                                    * RBW  1 MHz        Marker 1 [T1 ]
                                    * VBW  3 MHz                  -14.68 dBm
        Ref   35 dBm        Att  50 dB    SWT  70 ms    2.751201923 GHz
```
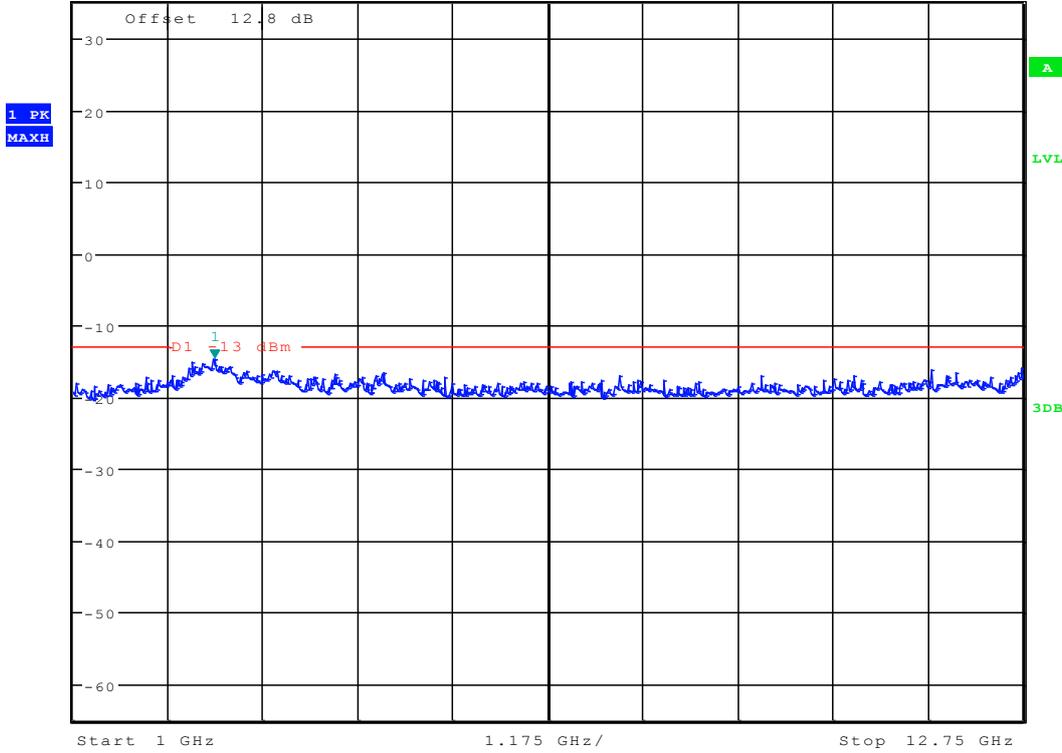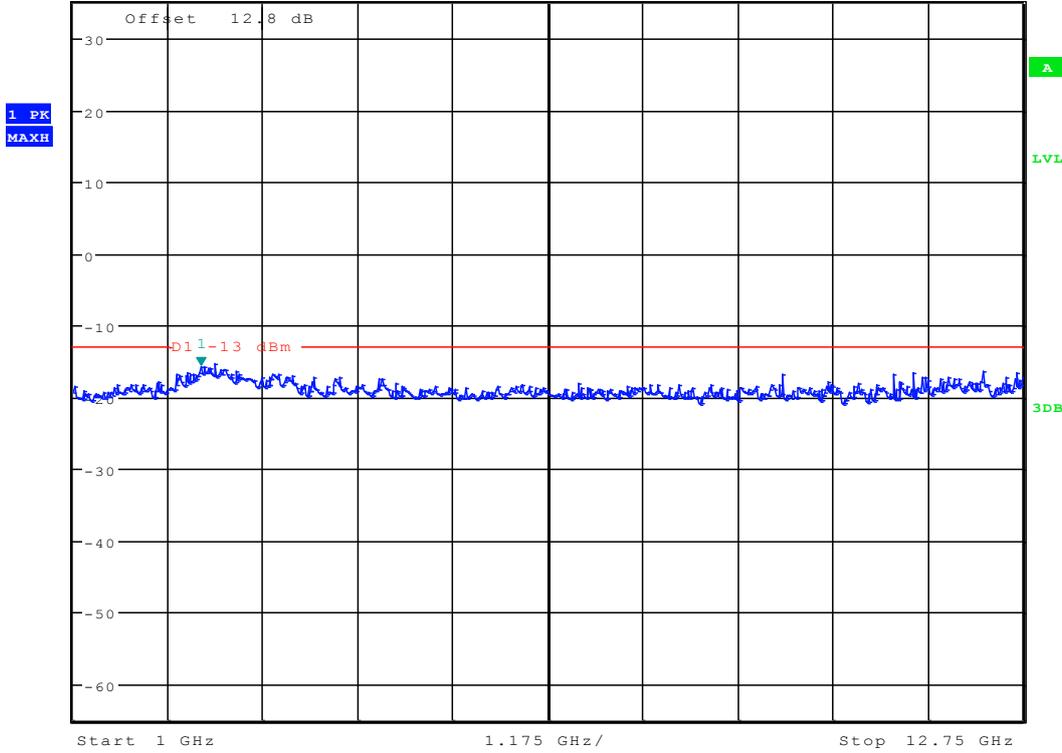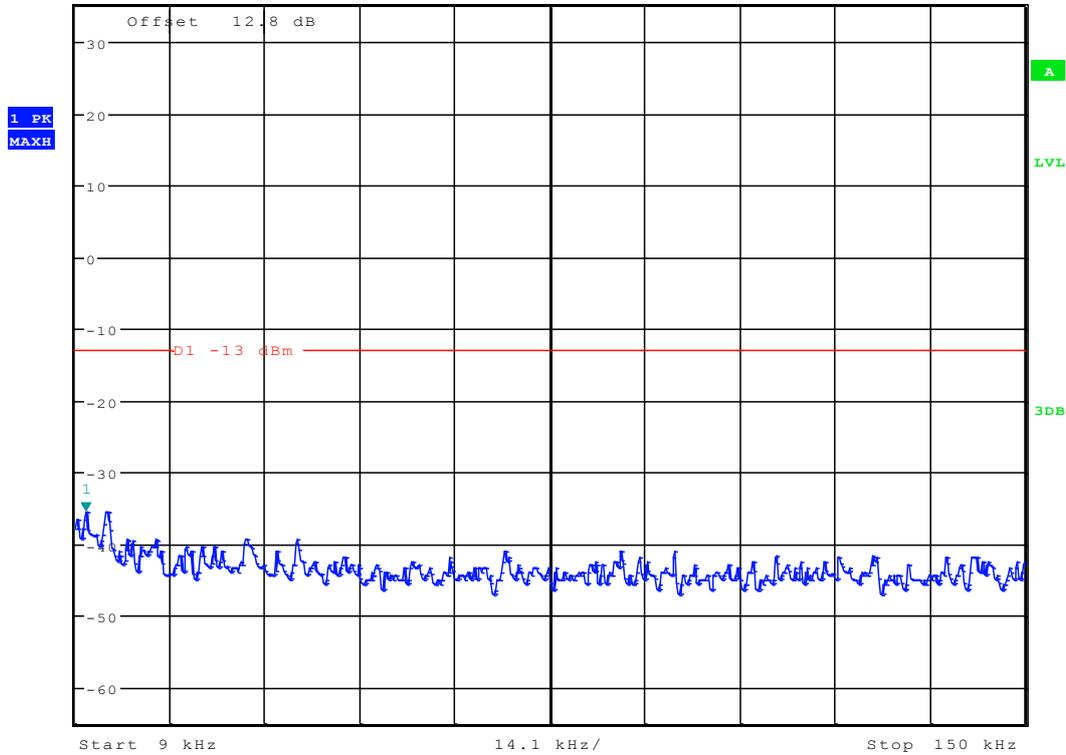
Date: 18.APR.2012 20:07:32

4.1.3.2.2 QPSK/1RBs /RB #max


```
* RBW  1 kHz          Marker 1 [T1 ]
* VBW  10 kHz                    -35.58 dBm
Ref  35 dBm          Att  50 dB     SWT  145 ms      9.000000000 kHz

   Offset   12.8 dB
```

Chart with:
- Offset 12.8 dB
- D1 -13 dBm line
- 1 PK MAXH
- A, LVL, 3DB markers
- Start 9 kHz, 14.1 kHz/, Stop 150 kHz

Date: 18.APR.2012 20:17:13

Date: 18.APR.2012 20:16:43

Date: 18.APR.2012 20:10:11

```
* RBW  1 MHz          Marker 1 [T1 ]
* VBW  3 MHz              -15.65 dBm
Ref  35 dBm      Att  50 dB    SWT  70 ms      2.581730769 GHz
```

Offset 12.8 dB

1 PK
MAXH

A

LVL

D1 -13 dBm

3DB

```
Start 1 GHz          1.175 GHz/          Stop 12.75 GHz
```

Date: 18.APR.2012 20:07:54

4.1.3.2.3 QPSK/full RBs

```
                                    * RBW  1 kHz      Marker 1 [T1 ]
                                    * VBW 10 kHz               -35.58 dBm
    Ref  35 dBm          Att  50 dB   SWT 145 ms      10.581730769 kHz

        Offset   12.8 dB
      -30                                                                      A
 1 PK
 MAXH -20                                                                     LVL

      -10

        0

      -10
          D1 -13 dBm
      -20                                                                     3DB

      -30
        1

      -50

      -60

    Start  9 kHz              14.1 kHz/               Stop  150 kHz
```
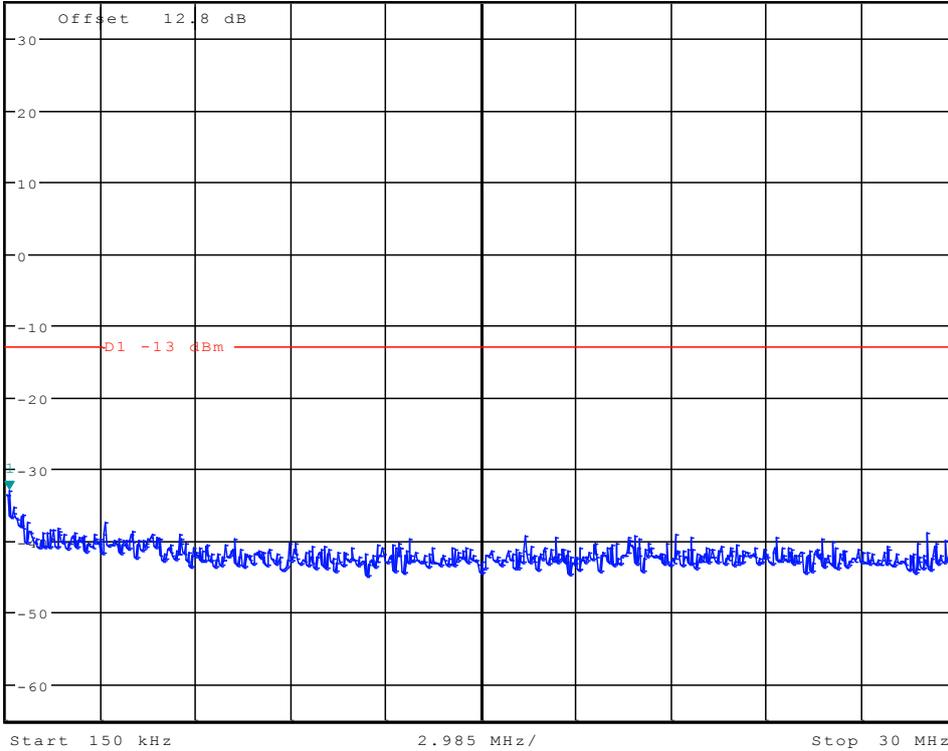
Date: 18.APR.2012 20:17:48

Date: 18.APR.2012 20:16:05

```
                                    * RBW 100 kHz       Marker 1 [T1 ]
                                    * VBW 300 kHz              24.64 dBm
      Ref   35 dBm        Att  50 dB    SWT 100 ms      712.419871795 MHz
```
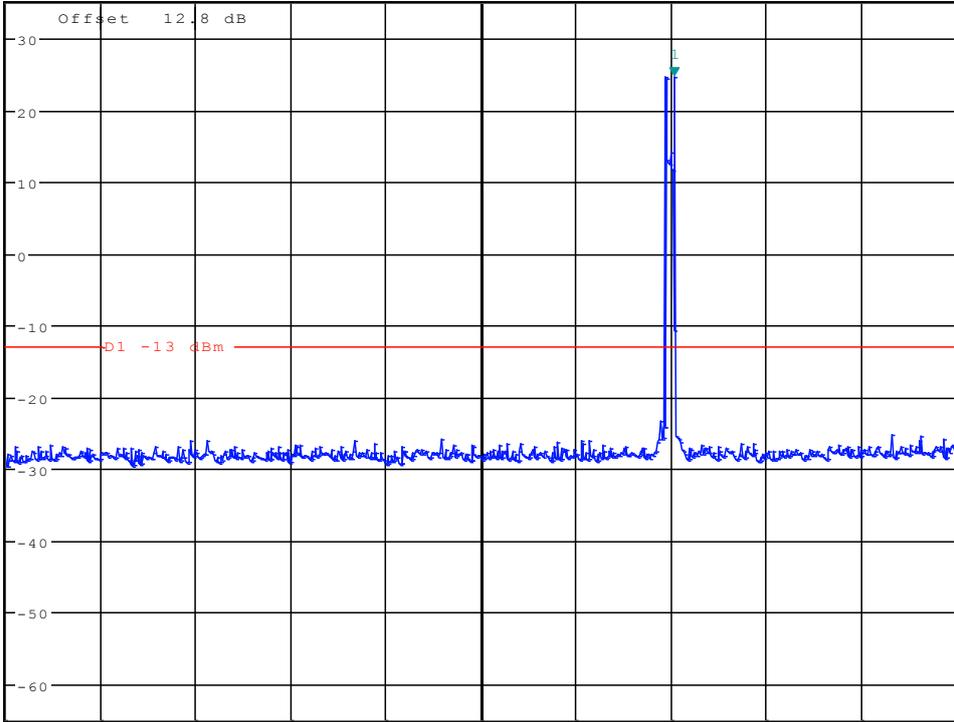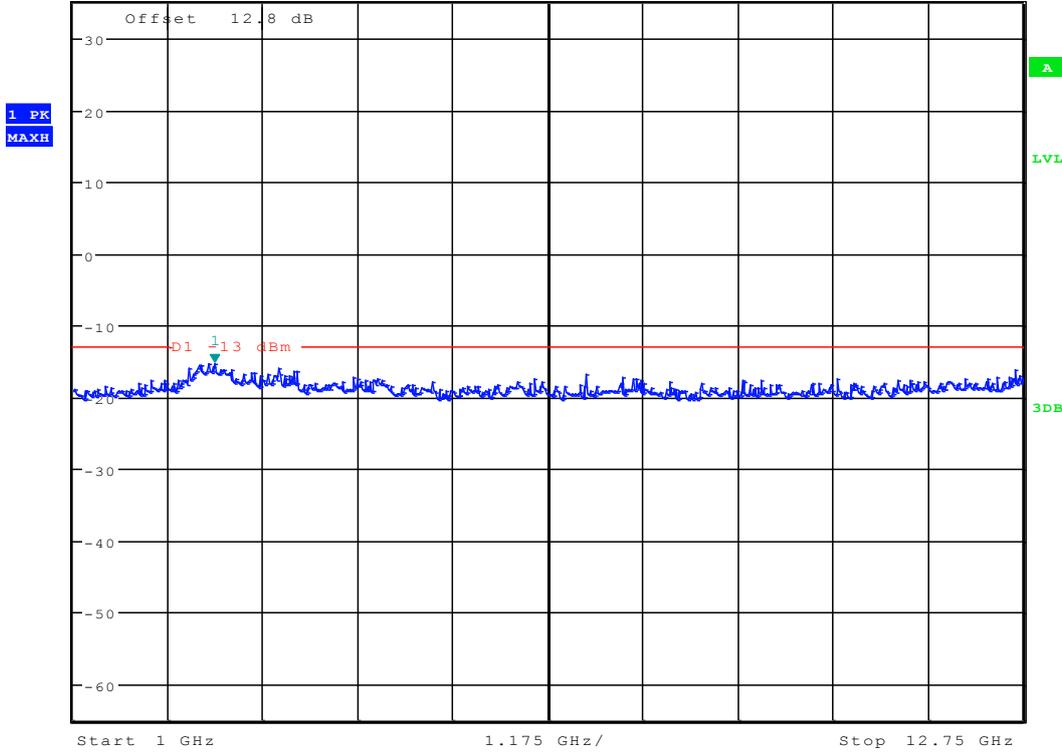

Date: 18.APR.2012 20:11:37

```
                              * RBW  1 MHz        Marker 1 [T1 ]
                              * VBW  3 MHz                  -15.29 dBm
   Ref   35 dBm      Att  50 dB    SWT  70 ms    2.751201923 GHz
```
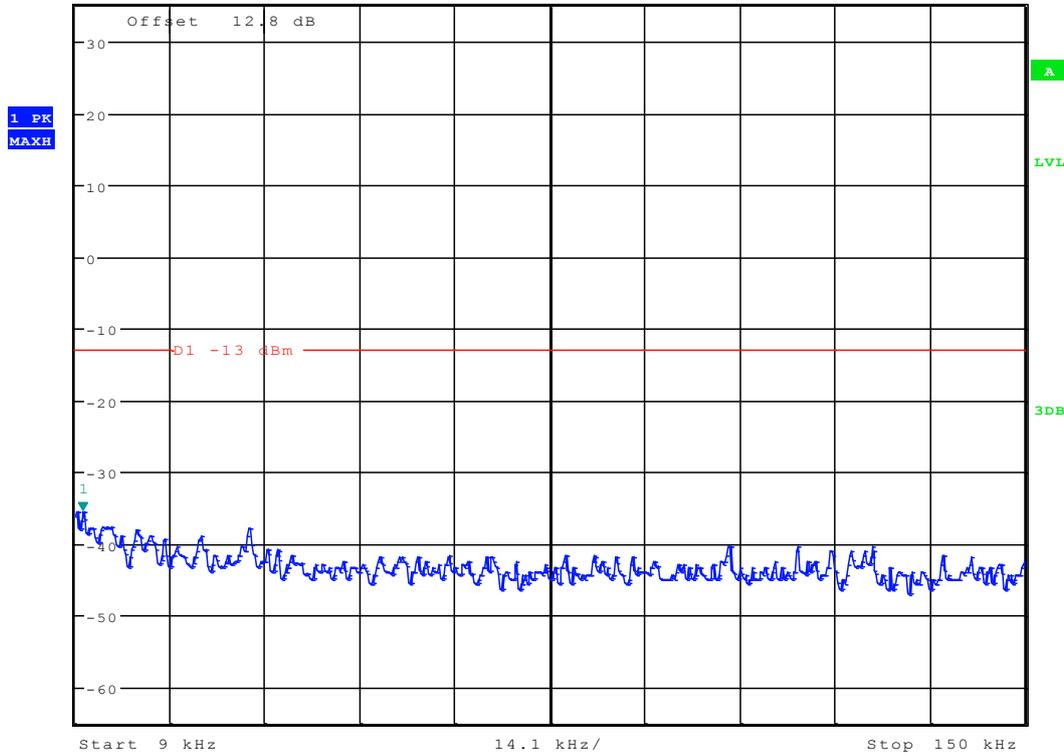
Offset 12.8 dB

1 PK
MAXH

A

LVL

D1 -13 dBm

3DB

```
Start  1 GHz              1.175 GHz/              Stop  12.75 GHz
```

Date: 18.APR.2012 20:04:18

4.1.3.3 Channel = T

4.1.3.3.1 QPSK/1RBs /RB #0


```
                                    * RBW  1 kHz         Marker 1 [T1 ]
                                    * VBW 10 kHz                 -35.41 dBm
         Ref  35 dBm      Att  50 dB   SWT 145 ms       10.129807692 kHz
```
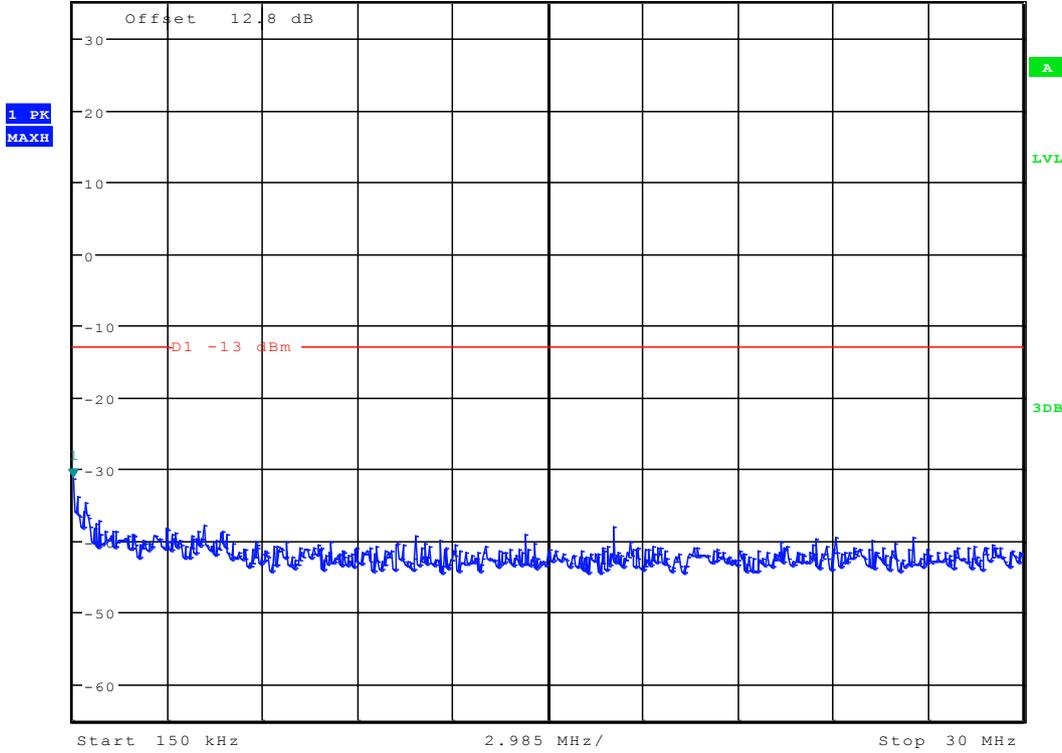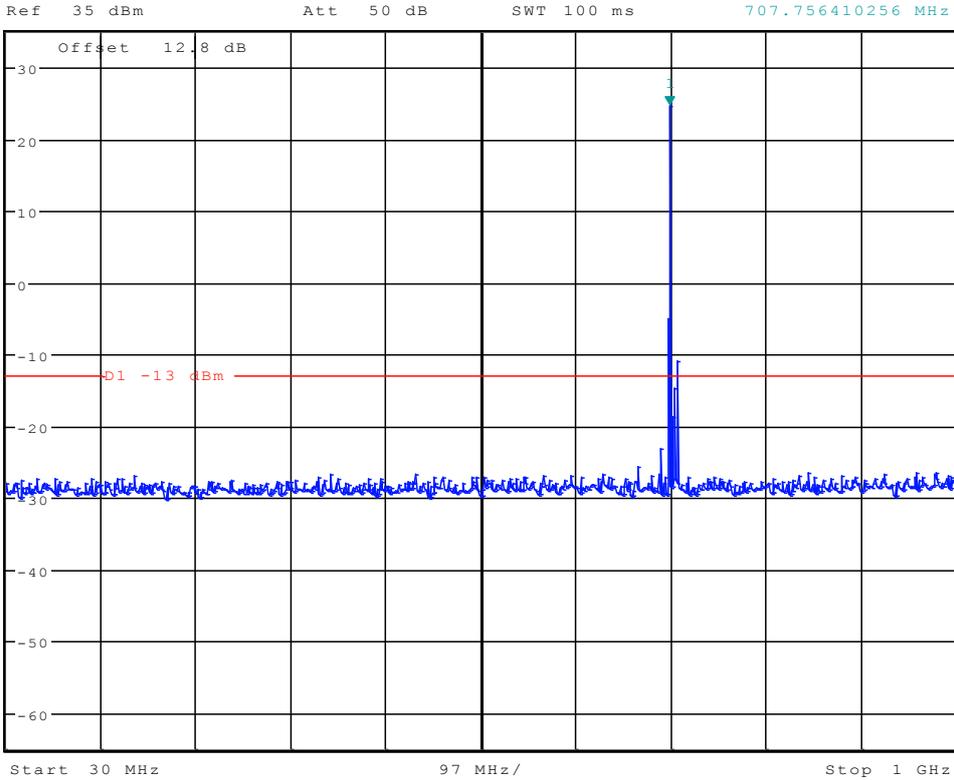
Date: 18.APR.2012 20:20:18

Date: 18.APR.2012 20:21:18

```
                              * RBW 100 kHz        Marker 1 [T1 ]
                              * VBW 300 kHz                 24.64 dBm
     Ref  35 dBm      Att  50 dB    SWT 100 ms    707.756410256 MHz
```
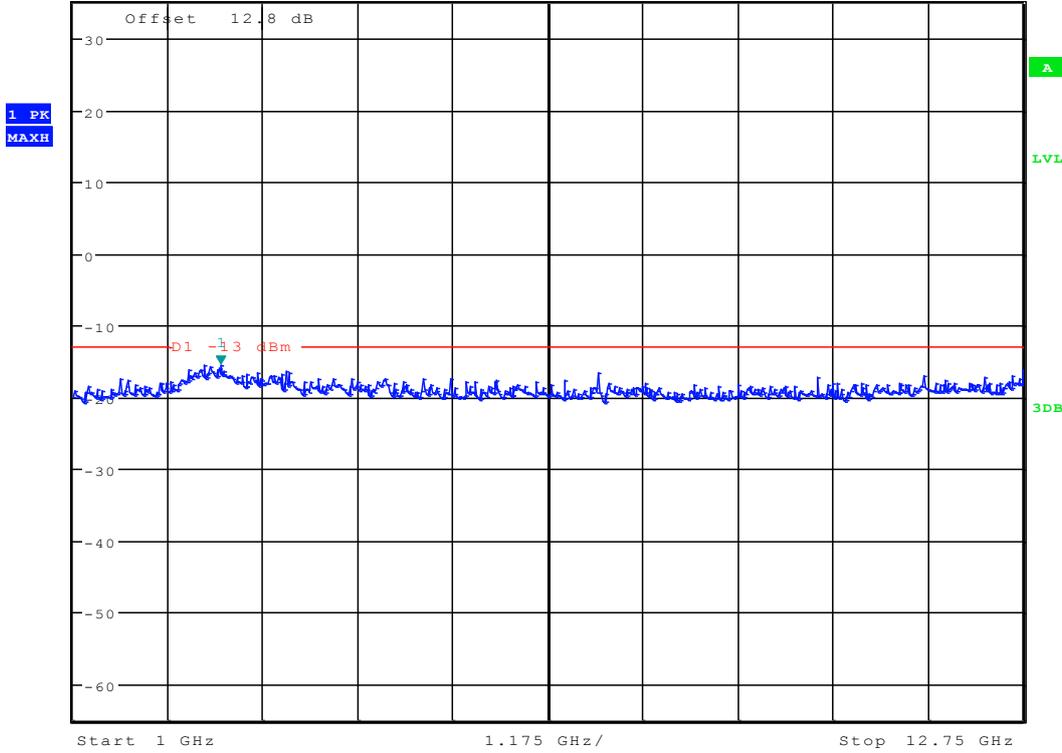


```
Start 30 MHz              97 MHz/              Stop 1 GHz
```

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Date: 18.APR.2012 20:23:38

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4.1.3.3.2 QPSK/1RBs /RB #max

```
                                          * RBW  1 kHz        Marker 1 [T1 ]
                                          * VBW  10 kHz                    -35.58 dBm
        Ref   35 dBm          Att   50 dB   SWT  145 ms        13.519230769 kHz
```
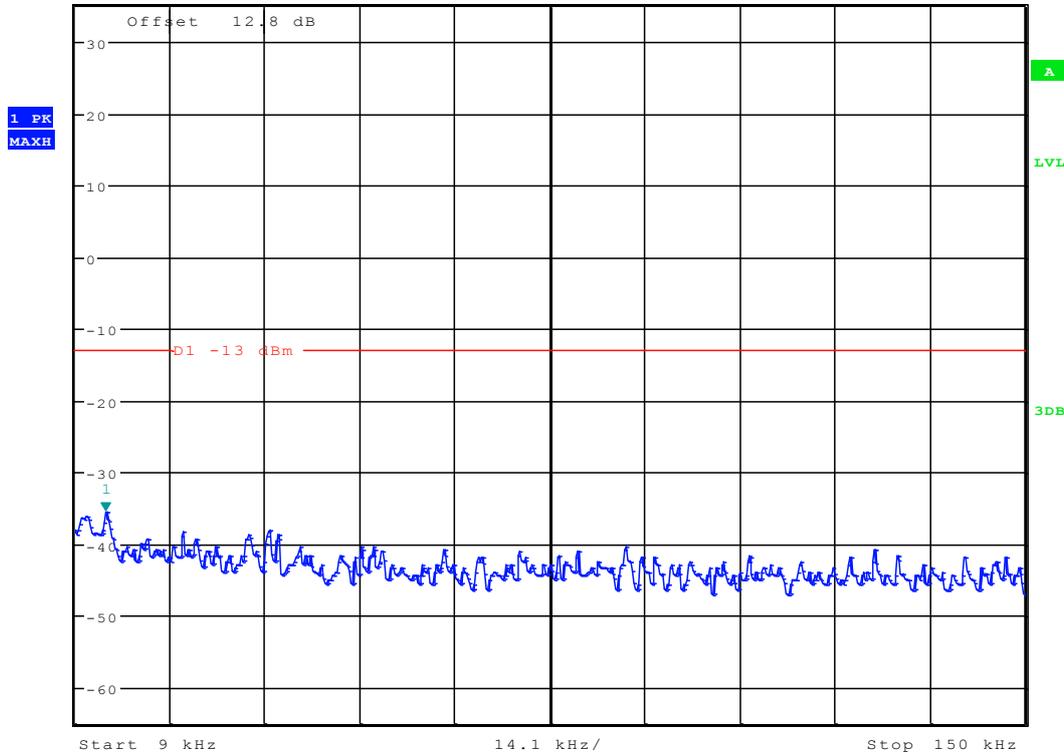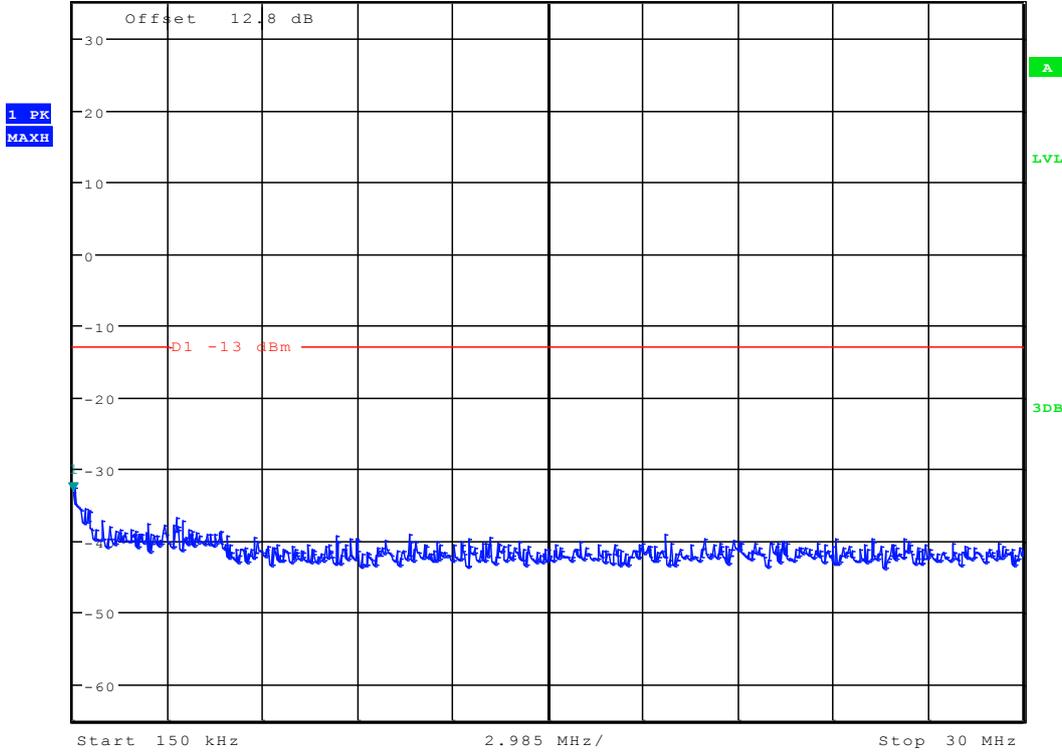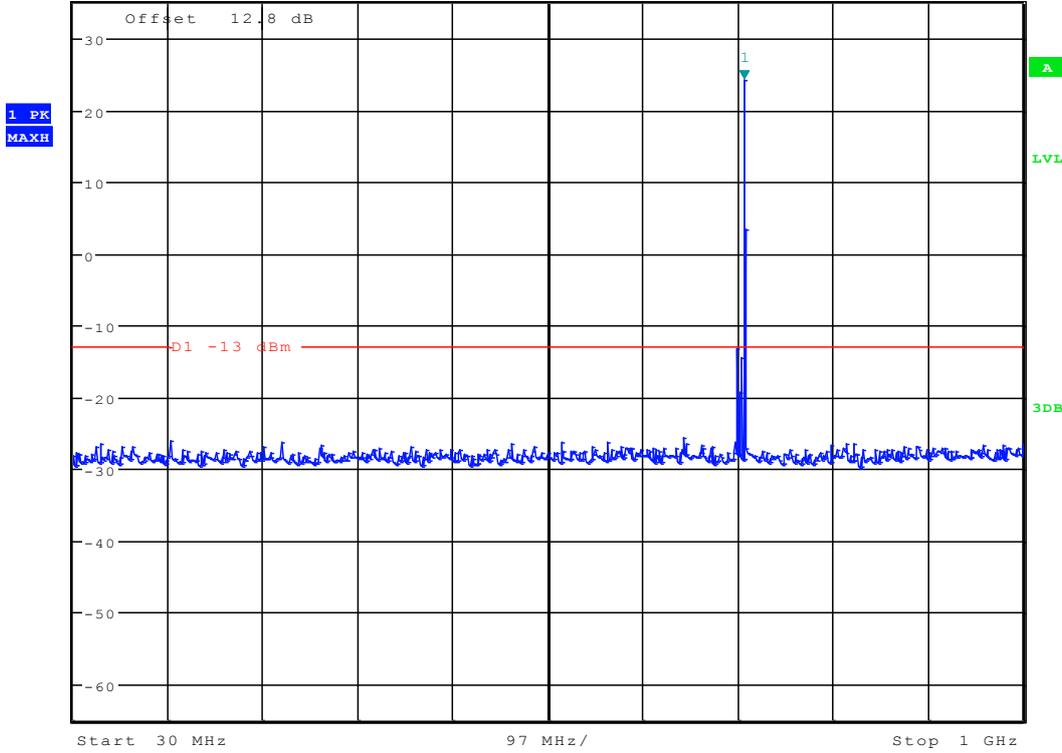
Offset   12.8 dB

D1 -13 dBm

```
Start  9 kHz              14.1 kHz/              Stop  150 kHz
```

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```
                                    * RBW  100 kHz      Marker 1 [T1 ]
                                    * VBW  300 kHz              24.19 dBm
        Ref   35 dBm        Att  50 dB    SWT  100 ms    715.528846154 MHz
```
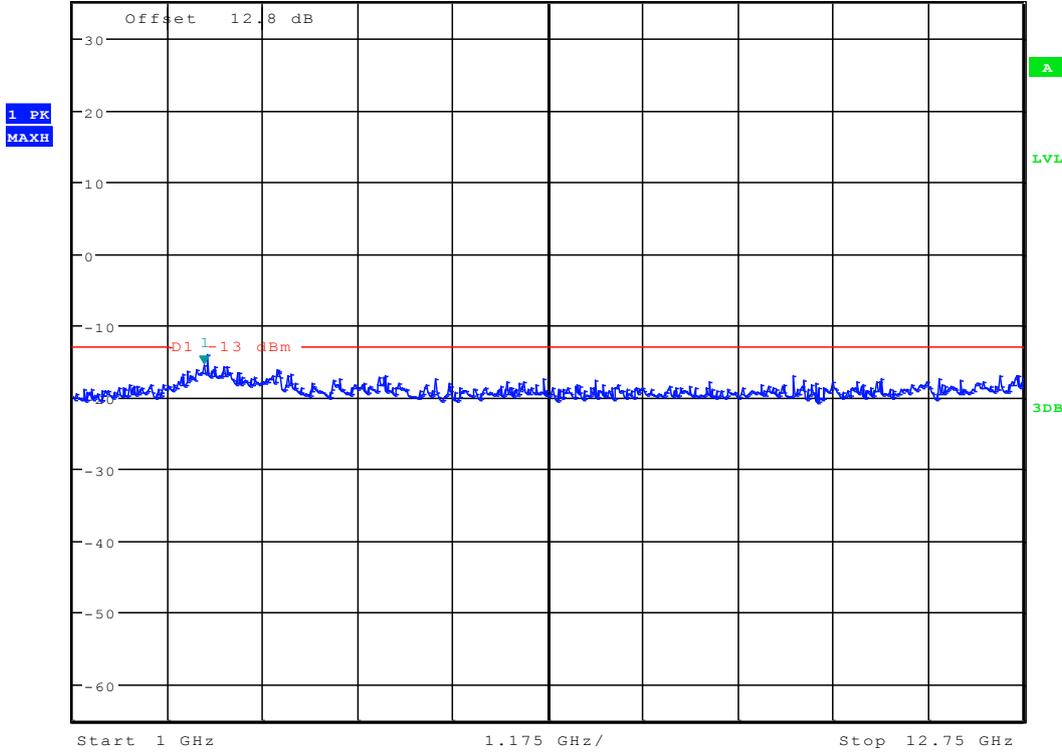


```
Start  30 MHz              97 MHz/              Stop  1 GHz
```

Date: 18.APR.2012 20:22:46

```
                                    *RBW  1 MHz        Marker 1 [T1 ]
                                    *VBW  3 MHz                  -15.49 dBm
     Ref   35 dBm       Att  50 dB   SWT  70 ms        2.619391026 GHz
```
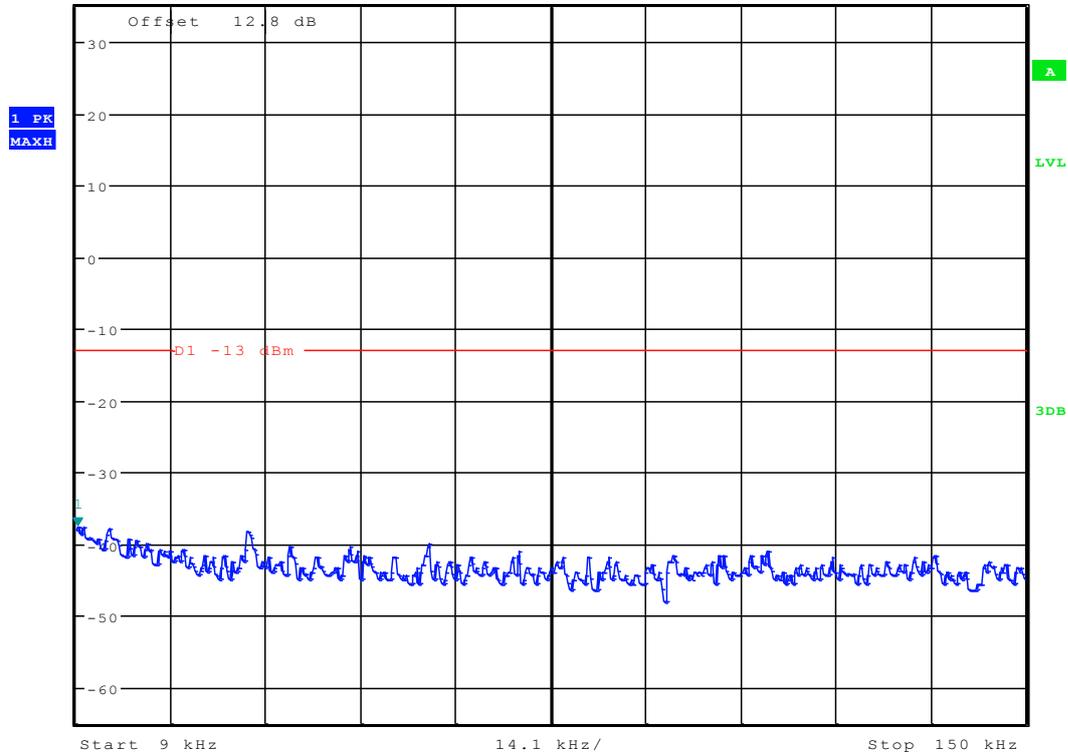


```
Start  1 GHz              1.175 GHz/              Stop  12.75 GHz
```

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4.1.3.3.3 QPSK/full RBs

```
                                    * RBW  1 kHz        Marker 1 [T1 ]
                                    * VBW  10 kHz                -37.49 dBm
        Ref   35 dBm          Att  50 dB    SWT 145 ms    9.225961538 kHz
        Offset   12.8 dB                                              A
    30

    20                                                              LVL
1 PK
MAXH
    10

     0

   -10
        D1 -13 dBm
   -20                                                              3DB

   -30

   -40

   -50

   -60

    Start  9 kHz           14.1 kHz/              Stop  150 kHz
```
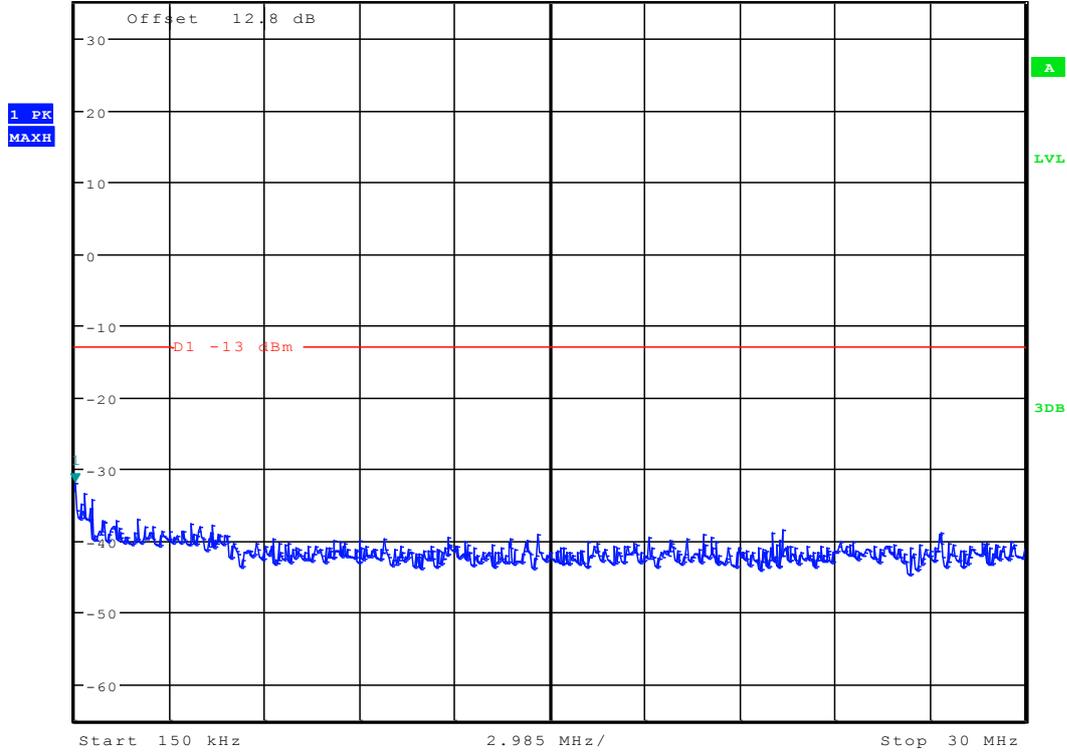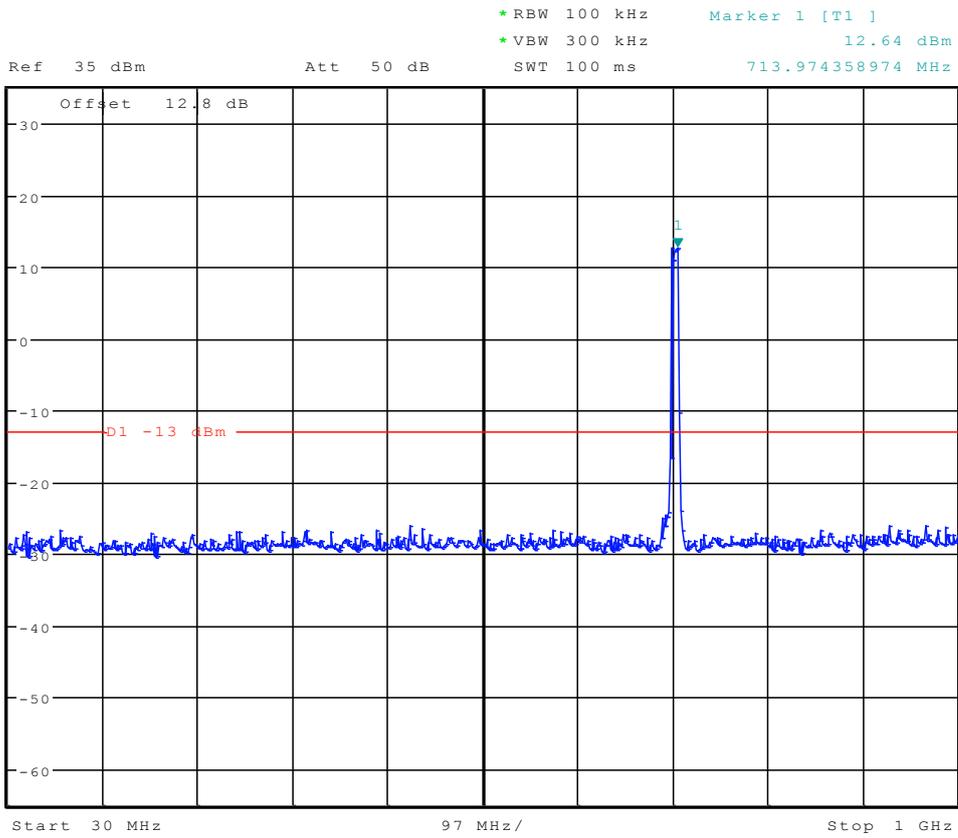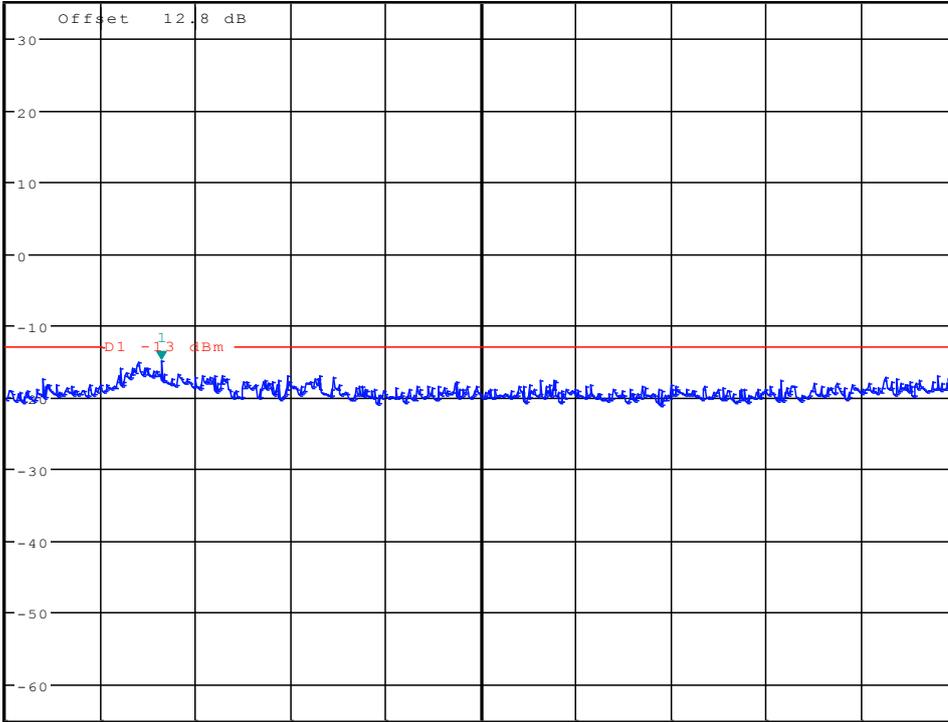
Date: 18.APR.2012 20:19:49

Date: 18.APR.2012 20:21:36

Date: 18.APR.2012 20:22:15

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